



construction selector

This construction selector summarizes the many effective systems that can be constructed with United States Gypsum quality-tested building products. Complete technical information, organized for efficiency of use, is presented according to the end result desired by the architect. It serves as a general guide for initial comparison and selection of systems and as an index to the various system and product folders providing more complete data.

partitions & walls ceilings & floors roof assemblies fireproofing

contents-U.S.G. technical information

This 20-page Selector is the first element, and the key reference index, in the U.S.G. Architectural Technical Literature series. Following is the sequence of other folders comprising the complete series. Folders marked "S" appear in the consolidated U.S.G. section in Sweet's 1971 Architectural File, Sec. 9.5. Those marked "O" appear elsewhere in Sweet's files. The blue numeral before each folder indicates the AIA-CSI Division classification. Copies of all folders listed are available through U.S.G. representatives or by mail (In Sweet's, see Literature Directory following this Selector).

Partition	Systems
Solid Gypsum/Metal Lath-Plaster	9 (S) Metal Studs-Gypsum Drywall a-1201 10 (S) Drywall Demountable a-1281 10 (S) VAUGHAN WALLS† Drywall a-1291 10 (S) ULTRAWALL* Movable a-1301 9 (S) Veneer Plaster-Wood a-1331 9 Metal Lath-Wood a-1350 9 Gypsum Lath-Wood a-1360 9 Drywall 1 & 2-Layer-Wood a-1391 9 (S) Drywall Resilient-Wood a-1401
Ceiling & Floor Systems—Air	Distribution—Radiant Heating
9 (5) Gypsum Drywall-Wood	9 Plaster Cable Heating b-1510 9 AURATONE* Panel Suspensions b-1541 9 ACOUSTONE* Tile Suspensions b-1551 13 AIRSON* Air Distribution b-1561 3 Gypsum Floor Plank b-1601 for related ceiling systems)
(Also see Farition folders	for retured centing systems)
Roof As	semblies
3 (O) Gypsum Concrete Roof Systemsc-1641	3 (O) Metal Edge Gypsum Roof Plankc-1651
Structural Firep	roofing Systems
 Metal Lath & Plaster Fireproofing d-1700 Gypsum Lath & Plaster Fireproofing d-1710 	4 (S) Gypsum Tile Fireproofing
Exterior Walls &	Furring Systems
9 (S) Drywall-Metal Channels	8 (S) Exterior Curtain Walls e-1821
(Also see Partition folders fo	r related wall furring systems)
Ruilding Pro	duct Catalogs
-	
9 (S) Gypsum Plasters. f-1851 9 (S) Plaster Bases & Accessories f-1861 9 (S) Wallboards & Accessories f-1871 9 Drywall Joint Treatment f-1881 6 Sheathing-Gypsum & Insulating f-1891 7 (O) Insulating Wool Products f-1901	9 (S) Paint Products
Industrial Pro	duct Catalogs
5 (O) Exp. Metals for ArchitectureIS-141	15 (O) GLOBE-STRUT* Channel FramingG-516
5 (O) GRATE-X* Gratings	16 (O) CABLE STRUT* Tray SystemsG-517 7 (O) Industrial InsulationIW-119

Numbering System: the System Folders and Building Product Catalogs are arranged in numerical sequence, as listed above. Those bearing a "1" as the last digit of the title number are new 1971 folders replacing any previous edition bearing the same first three digits. Folders with title numbers ending in "0" which have not been replaced were published in 1970 but are still current and unchanged. All Industrial Product Catalogs have their own numbering system and are new 1970 editions.

index-products and systems

(References listed are *principal* source of information in U.S.G. Architectural Technical Literature series—repetition or additional data may occur in other folders)

product or system	folder reference	product or system	folder reference	product or system	folder reference
A		· G		P	
Acoustical plaster	f-1851	Grating, expanded metal	is-15	Paint products	f-1911
Acoustical space units		Grating, reticulated metal		Plaster bases	f-1861
Acoustical tile, panels		Gypsum backing board		Plaster ceilings	
Adhesives, drywall		Gypsum concrete roof deck	c-1641	b-1460, b-1	471, b-1480, b-1510
Air distribution grids		Gypsum coreboard		Plaster furring systems a-10	031. a-1141. a-1151.
Air distribution systems		Gypsum drainage slope fill		a-1161, a-1171, a-1	181, a-1191, a-1360
Aluminum trima-1281, a-129	1, a-1301, f-1871	Gypsum floor plank		Plaster partitions, laminated.	
Asphalt roofing shingles		Gypsum lath ceilings		Plaster partitions, metal fram a-1141, a-1151, a-1	171, a-1181, a-1191
В		Gypsum lath fireproofing		Plaster partitions, wood fram	eda-1331, a-1350, a-1360
_	b 1451	Gypsum lath partitions	a-1031, a-1141,	Plastering lime	f-1851
Back-blocking system.			181, a-1191, a-1360	Plasters—basecoat, finish	
Block filler			f-1861	Plastic trim	
Blowing wool	1-1901	Gypsum plaster base.		Pre-finished gypsum wallboa	
		Gypsum roof plank		Primers & undercoat	
С		Gypsum studs, ribs			
Cable trays	g-517	Gypsum tile fireproofing		Radiant heat ceilings	h.1451 h.1510
Caged beam construction b-1471	l, b-1480, b-1491	Gypsum tile partitions		Resilient ceilings	
Ceiling board, metal accessories		Gypsum wallboard		Resilient partitions a-1	
Ceiling grid systems	b-1541, b-1561			a-1181, a-1331, a-1	
Ceiling heat systemsb-1451	l, b-1510, b-1561	1		Rigid foam wall furring	
Channel framing		Insulating blocks, high temp.	iw-119	Roofing, shingles & built-up.	
Channels, furring & lathing		Insulating wool		S	
Channels, resilienta-140.		Insulation, industrial	iw-119	Screws, gypsum board	f 1061 f 1071
Chase walls a-1031, a-1070		Insulation, perimeter		Sealer, spray compound	
a-1161, a-1171, a-1181, a-1191				Seismic roof construction	c-1641
Concrete finishing compound		J		Semi-solid partitions	
Control joints		Joint treatment	f-1881	Shaft wall partitions.	
Corner, casing beads			1001	Sheathing, gypsum	
Corner reinforcement		L		Sheathing, insulating	
Curtain wans	e-1821	_		Shingles, mineral sidewall	
		Laminated coreboard		Solid drywall partitions	
D		Lathing accessories	t-1861	Solid plaster partitions	a-1031, a-1141
Drywall ceilings		Lathing clips		Sound attenuation blankets	
Drywall fireproofing		Light fixture protection		Sound deadening board	f-1871
Drywall furring systems		100		Stains, wood	
Drywall partitions, laminated		M		Stair treads	g-515, is-15
	, a-1291, a-1391	Mansard roof shingles	f-1961	Stucco	e-1821, f-1851
Drywall partitions, metal framed	a-1281, a-1301	Masonry partitions		т	
Drywall partitions, wood framed.		Mason's lime		Tape, reinforcing	f-1861, f-1881
		Metal base	f-1861	Texture paint finishes	f-1911
_		Metal lath & accessories		V	
E		Metal lath ceilings		Varnishes	f-1911
Epoxy coatings		Metal lath fireproofing	d-1700	Veneer plaster systems a-11-	
Expanded metal	is-141	Metal lath partitions	a-1031, 61, a-1171, a-1350	b-14	71, d-1710, d-1721
		Metal pan acoustical units		Vent shaft construction a-10	
F		Metal stud partitionsa-114		Vinyl-coated gypsum wallboar	df-1871
Fascia, expanded metal	is-141	a-11	81, a-1191, a-1201	W	
Finishing lime	f-1851	Metal studs for drywall		Wallboard & accessories	f-1871
Floating angle constr a-1331		Metal studs for plaster		Wood frame partitions, ceilings	
Floor underlayment compound	b-1601	Metal tray systems			91, a-1401, b-1451
Flooring, gypsum plank	b-1601	Metal trim	f-1861, f-1871	z	
Flooring, open steel		Moldings, wallboard		Z-spline suspension systems.	h-1541
Formboard, gypsum roof decks	c-1641	Movable partitionsa-12		= spinio odoponolon ogotomo,	b-1551, b-1561

how to use the Selector

This folder is divided into six sections—A to F—covering the categories indicated below. Within each section are listed brief analyses of major variations of each system, as documented by fire or sound tests, federal specifications or ASTM designations. They are arranged sequentially according to fire ratings—the criterion that most often governs selection.

These analyses are organized to locate the criteria desired at a glance. In Sections A and B, covering partitions and ceilings, all information appears under eight column headings as follows:

fire			stc ra	ating	relative	comments	folder
rating	description	test no.	11-f	16-f	cost index	comments	folder reference

In sections C, D and E—roof assemblies, fireproofing and exterior walls—certain of these columns are not applicable and are omitted.

The analyses applicable to each system, as listed here in all six sections of the Selector, are repeated in the individual folder covering that system, indicated by number in the "Folder Reference" column. Full information, details and specifications on the selected constructions also are available in the folders.

a partitions—pages 5 to 10—include solid and laminated without studs, metal and wood-framed, and movable—in plaster and lath, drywall and gypsum tile.

b ceilings—pages 11 to 16—include suspended, furred and direct-attachment types, employing plaster and lath, drywall, and mineral fiber tile or panel surfaces with companion floor or roof construction. Air distribution and radiant heating systems also are offered.

c roof assemblies—page 16—listed are poured gypsum decks, and the prefabricated gypsum plank type, both available with integral ceilings.

d structural fireproofing—page 17—shows basic methods of protecting columns and beams with metal lath and plaster, gypsum lath and plaster, gypsum tile, and gypsum drywall.

exterior walls and furring—page 18—compares methods of furring exterior walls, including veneer plaster and drywall furring systems, and exterior curtain wall assemblies.

product catalogs—listed and indexed on page 19—present complete data on components and accessories used in U.S.G. construction systems. Subjects: gypsum plasters, plaster bases, gypsum wallboard and vinyl-faced panels, joint treatment, sheathing, insulating wool, paint products, sound control products, asphalt roofing, mason's lime, and mineral shingles for sidewalls and mansard roofs.

Federal specification and ASTM designation qualifications of U.S.G. products are listed here on page 19.

relative cost data

The "Relative Cost Index" in following test analyses provide an approximate relation of similar assemblies to one another. For example, a partition with a cost index of 168 should cost approximately 32% more than a partition with a cost index of 125. There is no basis for relating a partition construction to a ceiling assembly, column fireproofing or roof assembly.

Cost data for final consideration or budget purposes should be obtained by the architect in his own immediate market, on the project under construction.

abbreviations

In the test analyses following, the abbreviation "est" in the Fire and Sound Rating columns indicates estimated; the abbreviation N/A indicates not applicable or not available. Other abbreviations are classified by columns where they appear:

Description and Comments

			1
acoust	acoustical	htg	heating
adi	adjacent	incomb	incombustible
alt	alternate	ins	insulating
alum	aluminum	install	installation
appl	applied	int	interior
att	attached	lamin	laminated
atten	attenuation	mach	machine
betw	between	max	maximum
bd	board	met	metal
blkts	blankets	min	mineral or minimum
blt	built	mov	movable
byld	beveled	nom	nominal
	cellular	0.C.	on center
cell			opposite
cem	cement	opp	ounce
chan	channel	0Z	partition
clg	ceiling	partn	
col	column	pcs	pieces
com	common	perf	perforated
compd	compound	perim	perimeter
conc	concrete	pl	plaster
constr	construction	plywd	plywood
contin	continuous	prot	protected or protection
corebd	coreboard	qtr	quarter
corrug	corrugated	recom	recommended
COV	covered	reinf	reinforcement
cr	cold rolled	resil	resilient
ctd	coated	run	runner(s)
dbl	double	sec	section
dead	deadening	sep	separate
dens	density	separ	separated
diag	diagonal	sf	self furring
dir	direct	sheathg	sheathing
distr	distribution	slot	slotted
dm	diamond mesh	sm	smooth
	each	spec	special
ea		sq	square
elect	electrical		staggered
excl	excluding	stag	steel
exp	exposed	stl	
ext	exterior	susp	suspended
fab	fabric	syst	system
fed spec	federal specifications	surf	surface
fin	finish or finished	td	tied
fireprfg	fireproofing	text	texture
fixt	fixture	thickn	thickness
flr	floor	treat	treatment
formbd	formboard	unexp	unexposed
fur	furring	unfin	unfinished
ga	gauge	vert	vertically
galv	galvanized	wallbd	wallboard
hex	hexagonal	wd	wood
hol	hollow	wf	wide flange
horiz	horizontally	wt	weight (lbs./sq. ft.)
HOTTZ	Horizontany		the burnelume in au ft

Plaster mixes are given by weight in lbs., aggregates by volume in cu. ft.

Test No.

incomb	incombustible	MLA	Metal Lath Association
Des	Design	NBFU	Natl. Bd. Fire Underwriters
GA	Gypsum Association	ASTM	Amer. Soc. Testing Materials
IDI	Inculation Roard Institute	HSG	United States Gypsum

The recognized laboratories which performed the tests are noted by abbreviation as follows:

Fire (f)	Sound (s)
BMS—National Bureau of Standards UL—Underwriters' Laboratories, Inc. OSU—Ohio State University FPRI—Fire Protection Research Institute Und C—University of California	NBS— National Bureau of Standards TL— Riverbank Acoustical Laboratories 3 & H—Geiger & Hamme CK—Cedar Knolls Acoust. Laboratories WEAL—Western Electro-Acoust. Lab. BRN—Roll Repranek and Newman

Reports of tests listed here may be requested by number from United States Gypsum, Architectural Services Dept., 101 S. Wacker Dr., Chicago 60606.

Sound Rating

11-f	sound transmission class 11-frequency stc 16-frequency stc	9-f IIC db	9-frequency average impact insulation class decibel
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selector guide to sound-rated partitions

STC range	55-60	50-54	45-49	40-44	35-39
drywall assemblies	13, 14, 22, 23, 30, 72	15, 16, 24, 25, 28, 32, 73, 87, 88, 96	17, 26, 33, 74, 75, 82, 83, 89, 90, 91	76, 77, 81, 97, 98	21, 78, 84, 85, 86, 92
plaster assemblies	4, 94	5, 6, 34, 38, 39, 48, 63, 66, 95	7, 49, 50, 51, 52, 53, 55, 67	1, 9, 54, 56, 57, 68, 69, 70	58, 60, 61, 71

ywall a	assemblies 13, 14, 22, 23, 15, 16, 24, 30, 72 32, 73, 87,				17, 26, 3 82, 83,			76, 77, 8	1, 97, 98		84, 85, , 92
aster a	assemblies	4, 94	5, 6, 34, 38 48, 63, 66		7, 49, 5 53,	0, 51, 55, 67	52,		, 56, 57, 9, 70	58, 60,	61, 71
fire rating		description		te	st no.	stc r	ating 16-f	relative cost index	comm	nents	folder reference
4-h	nour rat	ed partitions	PLA	STERED	ASSEMB	LIES					
	NRY TYPE	- DI - L - 4// L - DVDOD A	D.III . F/# 100 2	T 110 00	.000 0011 (6)				5 " 16		
4 hrs.	gypsum sand	k Plaster—4" hol PYROBA d plaster w	rt 26 width 5¼"	NBS-305	836-OSU (f) F44 (s)	42		159	Excellent fir —good plast		a-1161
4 hrs.		& Plaster—6" hol PYROBA d plaster one side only w		T-26-1-0	OSU (f)	N/A		139	Excellent fir tion, low de		a-1161
METAL	FRAMED	TYPE									
4 hrs.	16" o.c.—one & 34" cem plaster in st	al Lath & Plaster—4" TF e side 3.4# poly-back dm m lime pl—3½" STRUCTO ud cavity—opp side 3.4# d gypsum sand plaster w	et lath direct att -LITE (Type R)	UL Des	13-4 hr (f)	N/A		500	Suitable for s tower constr		a-1171
3-h	our rate	ed partitions	PLA	STERED	ASSEMB	LIES					
	NRY TYPE										
3 hrs. est	Gypsum Tile & 16" o.c. veri betw fur—R-pl base—1/2"	k Plaster—3" hol PYROB t—1½" THERMAFIBER sc -5 resil clips att to wd fur- gypsum sand plaster one perimeter caulked wt	ound atten blkts -3%" ROCKLATH	USG-123- Field Te KSO-109		55	51	202	Excellent so fire resistan outlets in 12 test; two ca outlets in fie	ce. No 3-FT ulked	a-1161
3 hrs. est	Gypsum Tile	& Plaster—4" hol PYRC ROCKLATH pl base—½' side & opp side ½" d	BAR-R-5 resil	USG-110 Field Te KSO-109	-FT-G&H (s)	50	47	178	Good attenu No outlets i 110-FT; two outlets in fi	n caulked	a-1161
3 hrs. est	clips—¾″ F plaster one	& Plaster—3" hol PYRO ROCKLATH pl base—½" side & opp side %" direct	gypsum sand wt 24 width 5"	TL-60-12	?7 (s)	52		178	Excellent fir resistance— sound leaks flanking pat	reduces &	a-1161
3 hrs. est	clins-3/4" cl	& Plaster—3" hol PYRO r chan & 3.4# dm met la one side & opp side \%" (w	th-3/4" gypsum	NBS-313	(s)	46		195			a-1161
3 hrs.		Plaster—4" hol PYROBA d plaster one side only w		T-118-29	(f) U2O-08&	N/A		124			a-1161
3 hrs.	Gypsum Tile gypsum sand	& Plaster—3" hol PYRO	DBAR-58" 100:3 et 23 width 41/4"	T-26-5-C NBS-309		40		154	Incombustib plaster base		a-1161
3 hrs.		3" solid PYROBAR-unp	lastered wt 16 width 3"	T-26-3-0				91	Excellent fir	e protec-	a-1161
3 hrs.		& Plaster—3" hol PYRO d plaster one side only w	BAR-5/8" 100:3	T-1315-0	OSU (f)			118	Ideal for cha	ase walls,	a-1161
	571			WALL	ASSEMBL	IES					
METAL	FRAMED	TYPE		and Mean of	The same of the sa						
3 hrs.	gypsum wall gypsum core —horiz USG	psum Drywall—2 layers 5 bd appl vert one side ove bd set in met J-run—met met fur chan 24" o.c. betw screw att—joints fin	er 2" USG lamin H-studs 24" o.c.	T-4423-0	SU (f)		N/A	210	Fire rating al with IMPERI Plaster Base veneer plaste	AL and	a-1081
2-h	our rate	ed partitions	DR	YWALL	ASSEMBL	.IES					
AMINA	ATED & SOI	LID TYPES									
2 hrs.	lamin ea fac spaced 3" a	Orywall—½″ SHEETROCK te to two rows of 1″ USG apart—1½″ THERMAFIBI I to back of one row—stl ter caulked	gypsum corebd ER sound atten	USG-96-Field Tes KSO-1090	T-G&H (s)	60 56	55	165	Fire rating a applies with Outstanding isolation at I	out wool. sound	a-1070
2 hrs. est	Triple Solid Dr 3 rows of 1" 1½" apart— to back of or	ywall—½" SHEETROCK g USG gypsum corebd ea sp 1½" THERMAFIBER soun ne outer row—wallbd lami stlrunners—joints fin—po	gypsum wallbd— aced min 1½ & & d atten blkts att n & screw att to		FT-G&H (s)	59		210	Septum improresistance as	oves gainst	a-1070



	fire rating	description	test no.	stc ra	16-f	relative cost index	comments	folder referen
	2-h	our rated partitions DRYWAL	L ASSEMBLIES (contin	ued)			
ı	LAMINA	ATED & SOLID TYPES (continued)						
5	2 hrs. est	Triple Solid Drywall—½" SHEETROCK gypsum wallbd— 3 rows of 1" USG gypsum corebd ea spaced 1½" apart—wallbd lamin & screw att to outer rows—sti runners—joints fin—perimeter caulked wt 17 width 6½"	USG-95-FT-G&H (s)	53		195	Among best laminated drywall party walls in 50-54 stc range	a-1070
5	2 hrs.	418 Gypsum Ribwall—2 layers %" SHEETROCK FIRECODE gypsum wallbd ea side—1"x6" gypsum ribs 24" o.c. lamin betw base layers—wallbd screw att—ioints fin wt 12 width 4\%"	UL Des 17-2 hr (f) TL-63-15 (s)	51		165	Has design flexibility for pipe chase or party walls	a-1070
,	2 hrs.	Double Solid Drywall—1/2" SHEETROCK gypsum wallbd— two rows of 1" USG gypsum corebd spaced 11/8" apart —wallbd lamin & screw attea face—stl runners—joints fin—perimeter caulked wt 13 width 41/8"	T-1310-OSU (f) USG-13-FT-G&H (s)	46		150	Excellent, versatile— best value in 45-49 stc range	a-1070
-	2 hrs.	Solid Drywall—½" SHEETROCK FIRECODE "C" gypsum wallbd faces ea side over 1" USG gypsum corebd—face layers lamin—joints stag & fin—met angle runners at fir—½" met trim at sidewall/clg wt 8 width 2"	T-1339-OSU (f)	N/A		120		` a-1070
)	2 hrs. est	Solid Drywall – 1/8" SHEETROCK FIRECODE gypsum wallbd faces ea side over 1" USG gypsum corebd – face layers lamin – joints stag & fin wt 9 width 21/4"	TL-59-58 (s)	34		124		a-1070
)	2 hrs.	Solid Drywall Vent Shaft—%" SHEETROCK FIRECODE gypsum wallbd faces ea side over 1" USG gypsum corebd—face layers lamin & screw att—joints stag & unfin—%"x1%" angle runners horiz at fir clg & qtr points wt 9 width 24"	UL Des 21-2 hr (f)	N/A		124		a-1070
r	METAL	FRAMED TYPE						
	2 hrs.	Shaft Wall Gypsum Drywall—2 layers ½" SHEETROCK gypsum wallbd appl vert one side over 2" USG lamin gypsum corebd set in met J-run—met H-studs 24" o.c.—base layer screw att—face layer lamin & screw att—joints fin wt 14 width 3"	T-4481-OSU (f) TL-68-78 (s)		38	173	Fire rating also applies with IMPERIAL Plaster surface; sound test based on %" thick wallboard	a-1081
2	2 hrs.	Met Stud—2 layers ½" SHEETROCK FIRECODE "C" gyp- sum wallbd ea side—2½" or 3¾" USG studs 24" o.c.— 1",1½" or 2" THERMAFIBER sound atten blkts stapled —wallbd appl vert & joints stag—base layer screw att— face layer strip lamin or screw att—joints fin— perimeter caulked	UL Des 28-2 hr (f) Field Test KSO-109006-a (s) USG-114-FT-G&H (s) CK-654-40 (s)	55 54	54 53	173	Best value of drywall metal stud party walls in 50-54 stc range. CK-654-40 based on screw-attached face layer	a-1201
3	2 hrs. est	Met Stud Chase Wall—2 layers ½" SHEETROCK FIRECODE ''C'' gypsum wallbd ea side—1½" USG studs 24" o.c. in 2 rows spaced 6¾" apart—½" wallbd gussets spanning chase att to studs at qtr points—wallbd appl vert & screw att—1½" THERMAFIBER sound atten blkts one side—joints stag & fin—perimeter caulked	USG-134-FT-G&H (s)	55		189		a-1201
1	2 hrs. est	Met Stud—2 layers ½" SHEETROCK FIRECODE "C" gypsum wallbd ea side—2" USG studs 24" o.c.—wallbd appl vert & screw att—1½" THERMAFIBER sound attn blkts—joints fin—perim caulked wt 9 width 4"	TL-69-159 (s) TL-69-155 (s)		52 45	173	TL-69-155 based on same construction without wool	a-1201
5	2 hrs. est	Met Stud—%" SHEETROCK FIRECODE gypsum wallbd— 3%" USG studs 24" o.c.—2 layer—base layer ½" USG min fiber sound dead bd ea side screw att—wallbd face layer lamin & screw att—joints stag & fin—perimeter caulked width 5%"	USG-103-FT-G&H (s) Field Test KSO-109006-b (s)	52 50	52	186		a-1201
	2 hrs.	Met Stud—2 layers %" SHEETROCK FIRECODE gypsum wallbd plain or vinyl faced vert appl ea side—35%" USG studs 24" o.c.—base layer screw att—face layer lamin or screw att—joints fin or unfin—perimeter caulked wt 12 width 61%"	UL Des 11-2 hr (f) TL-60-113 (s)	46		157	Excellent for corridors	a-1201
,	2 hrs.	Met Stud—2 layers ½" SHEETROCK FIRECODE "C" gyp- sum wallbd—1%" USG studs 24" o.c.—2 layers ea side vert appl & screw att joints fin wt 9 width 3%"	U of C 6-15-65 (f)	N/A		156	Most economical 2-hour metal stud drywall partition	a-1201
	MOVAB	BLE TYPE						
3	2 hrs.	Mov VAUGHAN WALLS pre-chased dbl sound wall—spec %" USG gypsum wallbd face panels lamin to %" gypsum core strips placed to form panel joints—2 rows 1%" thick spaced 1½" or 3" apart—alum trim wt 13 width 5½" or 6"	UL Des 24-2 hr (f) TL-65-72 (s) TL-64-189 (s)	50 45	52	250 230	Ideal for library, con- ference rooms, 50 stc based on 6" width with wool; 45 stc on 5\%" width witiout wool	a-1291
	WOOD	FRAMED TYPE						
9	2 hrs.	Wd Stud—2 layers %" SHEETROCK FIRECODE or W/R FIRECODE "C" gypsum wallbd—2x4 16" o.c.—base layer 6d nails 6" o.c.—face layer lamin or nailed to base—joints fin wt 12 width 6\%"	UL Des 4-2 hr (f)	N/A		161	Basic 2-hour	a-1391



fire rating	description	test no.	_	stc r l1-f	ating 16-f	relative cost index	comments	folder reference	
2 hrs. est	Wd Stud—2 layers ½" SHEETROCK FIRECODE "C" gyp- sum wallbd ea side—2x4 16" o.c.—3" THERMAFIBER ins wool blkts—RC-1 chan one side spaced 24" o.c.— resil side screw att—opp side nail att—both base layers appl vert and face layers appl horiz—base layers perim caulked—joints fin wt 12 width 6½"		(s) (s)		59 49	180 171	Exceptional sound control for party walls. TL-67-212 based on same construction without wool	a-1401	•
2 hrs.	Wd Stud—2 layers 1/8 "SHEETROCK FIRECODE "C" gypsum wallbd ea side—2x4 16" o.c.—2" THERMAFIBER ins wool blkts—RC-1 chan one side spaced 24" o.c.—resil side screw att—opp side nail att—both base layers appl vert and face layers appl horiz—base layers perim caulked—joints fin wt 13 width 6%"	T-4799-OSU	(f)			187		a-1401	
2 hrs. est	Wd Stud—2 layers %" SHEETROCK FIRECODE "C" gypsum wallbd—2 rows 2x4 16" o.c. on sep plates 1" apart—base layer att with 6d ctd nails 16" o.c.—face layer att with 7d ctd nails 7" o.c.—perim caulked— joints fin wt 13 width 10%"	TL-69-214	(s)		51	186		a-1391	
2 hrs. est	Stag Wd Stud—2 layers %" SHEETROCK FIRECODE "C" gypsum wallbd—2x4 16" o.c. on 2x6 com plate—base layer att with 6d ctd nails 6" o.c.—face layer att with 8d ctd nails 8" o.c.—perim caulked—joints fin wt 13 width 8%"	TL-69-211	(s)		47	182		a-1391	
	PLA	STERED ASSE	MBLII	ES	\				
OLID	TYPE				<u> </u>		- Maring		
2 hrs.	Double Solid Gypsum—½" IMPERIAL plaster base & veneer plaster—pl base strip lamin & att with Type G screws to 1" USG gypsum corebd—met angle runners at flr & clg 1½" to 3" apart—2" THERMAFIBER sound atten blkts stapled to corebd one side—½" IMPERIAL plaster—joints taped—perimeter caulked	UL Des 26-2 hr ((f)				Fire rating also		-
	wt 13 width 6%"		s)	54	54	178	applies without wool	a-1141	_
2 hrs. est	Solid Gypsum-%" IMPERIAL plaster base & veneer plaster—pl base lamin ea face to 1" USG gypsum corebd—met angle runners at flr & clg—joints stag & taped—1/16" IMPERIAL plaster wt 10 width 2½"	TL-63-208 (:	s)	34		135		a-1141	
2 hrs.	Solid Gypsum Vent Shaft—%" IMPERIAL plaster base Type X & veneer plaster—%" pl base lamin & screw att ea face to 1" USG gypsum corebd—joints stag—%"x1%" angle runners horiz at fir clg & qtr points—one side with joints taped and 1/16" IMPERIAL plaster wt 9 width 2%"	UL Des 21-2 hr (f) N	I/A		128		a-1141	-
2 hrs.	Chan Stud—Solid Metal Lath & Plaster—¾" cr chan 16" o.c.—3.4# dm met lath—STRUCTO-LITE (Type R) plaster wt 12 width 2½"	UL Des 19-2 hr ((f)	N/A		137	2-hr. rating also with 2" of wood fiber plaster per NBS 71 table 7	a-1031	-
ETAL	FRAMED TYPE								_
2 hrs.	Met Stud—2 layers %" IMPERIAL plaster base Type X & veneer plaster—3%" USG met studs 24" o.c.— base layer screw att—face layer lamin—joints taped —11/16" IMPERIAL plaster wt 12 width 63%"	UL Des 11-2 hr (1)		50		174	Excellent for corridors; sound performance based on perimeter caulking	a-1141	-
2 hrs.	Met Stud—2 layers ½" IMPERIAL plaster base & veneer plaster—2½" USG met studs 24" o.c.—run track gasketed & caulked—base layer screw att—face layer strip lamin 24" o.c. & att with Type G screws betw studs—2" THERMAFIBER sound atten blkts att one side—½6" IMPERIAL plaster—perimeter caulked wt 10 width 4¾"	UL Des 27-2 hr (1) CK 654-66 (s USG-127-FT-G&H (s) Field Test KSO-1090072-a (s)	s) s)	52	53	183	CK 654-66 based on 2 layers Type X base screw-attached and 1" THERMAFIBER blankets; fire test same construction without wool	- 1141	-
2 hrs.	Met Stud—2 layers ½" IMPERIAL plaster base Type X & veneer plaster—2½" or 3%" USG studs 24" o.c.—1", 1½" or 2" THERMAFIBER sound atten bikts stapled—pl base appl vert & joints stag—base layer screw att—face layer strip lamin with Type G screws betw studs—joints taped—1½6" IMPERIAL plaster—perimeter caulked wt 10 width 4¾"		f)	/A	43	180	without wool	a-1141	-
2 hrs.	Stl Stud—Metal Lath & Plaster—2½" TRUSSTEEL studs 16" o.c.—3.4# dm met lath—¾" 100:1 gypsum wood fiber sand plaster wt 17 width 4½"	UL-R4024-9-10 (1	f)	/A		210	Excellent fire performance; highly abrasion resistant	a-1171	_
2 hrs.	StI Stud—Gypsum Lath & Plaster—2½" TRUSSTEEL studs 16" o.c.—3%" perf ROCKLATH—34" 100:2-100:2 gypsum perlite plaster wt 11 width 5"	T-1813-GA-OSU (f	f)	/A		132	Excellent fire rating at a low cost	a-1181	_
OOD	FRAMED TYPE								
2 hrs.	Wd Stud—2 layers ½" IMPERIAL plaster base Type X & veneer plaster—2x4 16" o.c.—base layer 6d nails 6" o.c.—face layer lamin or nailed to base—1/16" IMPERIAL plaster both sides—joints taped wt 12 width 61/4"	UL Des 4-2 hr (f		I/A		169	Basic 2-hour partition construction	a-1331	
2 hrs.	Wd Stud—Gypsum Lath & Plaster—2x4 16" o.c.—¾" perf ROCKLATH nailed 5" o.c.—hex wire mesh nailed 8" o.c. over face of lath & held ⅓s" away from face—1" 100:2½ gypsum perlite plaster wt 12 width 6¾"	T-961-OSU (f		I/A		195		a-1360	4



fire rating	description	test no.		stc ra	ting 16-f	relative cost index	comments	folder referen
11/2	-hour rated partitions	WALL ASSEN	IBLII	ES				
SOLID	TYPE							
1½ hrs.	Solid Drywall—½" SHEETROCK gypsum wallbd faces ea side over 1" USG gypsum corebd—face layers lamin— joints stag & fin—1" sq wd runner wt 8 width 2"	T-1175-OSU	(f)	N/A		105		a-107
1-h	our rated partitions PLAS	STERED ASSE	MBL	IES				
MASON	IRY TYPE							
1 hr.	Gypsum Tile—3" hol PYROBAR—unplastered wt 11 width 3"	BMS-92 table 24	(f)			78		a-116
1 hr.	Gypsum Tile—2" solid PYROBAR—unplastered wt 11 width 2"	BMS-92 table 24	(f)			86	For col. fireprfg., short runs & vent shafts only	a-116
METAL	FRAMED TYPE							
1 hr. est	Stl Stud—Resil Gypsum Lath & Plaster—3½" TRUSSTEEL Studs 16" o.c.—2" THERMAFIBER sound atten blkts—TR-1 clips one side & TL-1 clips opp side—¾" ROCKLATH—½" 100:2-100:2 gypsum sand plaster—perimeter caulked wt 14 width 5½"	USG-125-FT-G&H CK-664-38 GA-2-3-4-FT-G&H Field Test KSO-1090072-b	(s)	49 50 47	52 46	150	Est. fire rating, GA-2-3-4-FT-G&H and CK-664-38 based on perf. ROCKLATH. 2 caulked outlets on each side in field test	a-118
1 hr.	StI Stud—Resil ½" IMPERIAL plaster base Type X & veneer plaster—2½" TRUSSTEEL studs 24" o.c.—RC-1 chan both sides spaced 16" o.c. att with ¾" Type T pan head screws—pl base att with 1" Type S screws—1/16" IMPERIAL plaster—joints taped wt 7 width 4¾"	T-4831-OSU TL-69-288 TL-69-278	(f) (s) (s)		36 48	135 150	TL-69-278 based on assembly with 1½" THERMAFIBER sound attenuation blankets	a-115
1 hr. est	StI Stud—Resil Metal Lath & Plaster—2½" TRUSSTEEL studs 16" o.c.—one side #400 resil clips & pencil rods—opp side direct with SUPER-TITE clips—3.4#dm met lath—¾" 100:2-100:3 gypsum sand plaster—perimeter caulked	TL-68-32	(s)		47	160	Erection speeded by clip attachment	a-117
1 hr. est	Met Stud—Gypsum Lath & Plaster—2½" USG studs 16" o. c.—¾" ROCKLATH—MS-1 clips both sides—1" THERMAFIBER sound atten blkts—½" 100:2½ gypsum sand plaster—perim caulked wt 15 width 4½"	CK-664-18	(s)		49	138		a-119
1 hr.	Met Stud-1 layer ½" IMPERIAL plaster base Type X & veneer plaster-3%" USG met studs 24" o.c.—pl base screw att-1" THERMAFIBER sound atten bikts stapled one side—joints stag & taped-½6" IMPERIAL plaster—perimeter caulked wt 8 width 4¾"	T-3124-OSU CK-664-1	(f) (s)		45	134	Fire test based on assembly with 2½" studs, without wool. Stud spacing at 16" o.c. recommended	a-114
1 hr. est	Met Stud—Gypsum Lath & Plaster—2½" USG studs 16" o.c.—¾" ROCKLATH—MS-1 clips both sides—½" 100:2½ gypsum sand plaster—perim caulked wt 14 width 4¼"	CK-664-17	(s)		45	125		a-119
1 hr.	Sti Stud-Metal Lath & Plaster-3¼" TRUSSTEEL studs 16" o.c3.4# dm met lath-¾" 100:2-100:2 gypsum sand plaster wt 16 width 4¾"	BMS-92 table 31 NBS-329 F44	(f) (s)	41		150	Standard steel stud partition	a-117
1 hr. est	Stl Stud—Resil Gypsum Lath & Plaster—2½" TRUSSTEEL studs 16" o.c.—TR-1 clips one side & TL-1 clips opp side—¾" perf ROCKLATH—½" 100:2 gypsum sand plaster—perimeter caulked wt 12 width 4¾"	TL-69-14	(s)		46	128	Can improve STC with sound blankets stapled to back of direct-applied side per 125-FT test	a-118
1 hr.	Sti Stud—Gypsum Lath & Plaster—2½" TRUSSTEEL studs 16" o.c.—¾" perf ROCKLATH—½" 100:2-100:2 gypsum sand plaster wt 13 width 4½"	T-309-OSU TL-58-7	(f) (s)	41		125	Record of proven performance	a-118
1 hr.	Stl Stud—Gypsum Lath & Plaster—1½" TRUSSTEEL studs 16" o.c.—¾" perf ROCKLATH—½" 100:2-100:2 gypsum sand plaster wt 13 width 3½"	T-887-OSU TL-58-7	(f) (s)	41		123	Good alternate for most solid partitions	a-11
1 hr.	Met Stud—Gypsum Lath & Plaster—2½" USG studs 24" o.c.—2" THERMAFIBER sound atten blkts—¾" perf ROCKLATH screw att—½" gypsum sand plaster wt 13 width 4¼"	T-1974-OSU TL-63-268	(f) (s)	38		141		a-119
1 hr.	Sti Stud—Metal Lath & Plaster—3½" TRUSSTEEL studs 16"o.c.—3.4#dm met lath direct att with SUPER-TITE clips—¾" 100:2-100:2 gypsum sand plaster wt 16 width 4¾"	T-4228-OSU	(f)	N/A		145	Erection speeded by clip attachment	a-11
SOLIE	TYPE							
1 hr.	Studless—Solid Metal Lath & Plaster—¾" riblath— 100:2-100:2 gypsum sand plaster wt 18 width 2"	T-162-OSU NBS-527-F51	(f) (s)	38		127	Adaptable in areas of large volume constr	a-10
1 hr.	Chan Stud—Solid Metal Lath & Plaster—¾" cr chan 16" o.c.—2.5# dm met lath—100:2-100:2 gypsum sand plaster wt 18 width 2"	MLA T-129 OSU NBS-523 F45	(f) (s)	37		133	Standard solid partition design	a-10
1 hr.	Studiess—Solid Gypsum Lath & Plaster—½" long length ROCKLATH—¾" 100:1-100:2 gypsum sand plaster wt 16 width 2"	T-118-7 & 8-OSU NBS-510 F29	(f) (s)	34		120	Ideal for volume projects when fitting or cutting is minimum	a-10



fire rating	description	test no.		stc r 11-f	16-f	relative cost index	comments	folder reference
/00D	FRAMED TYPE							
1 hr.	Wd Stud-Resil 1/4" IMPERIAL plaster base & veneer plaster-2x416" o.c3" THERMAFIBER ins wool blkts -RC-1 chan one side spaced 24" o.cbase att with 1" Type S screws-opp side att direct with 11/4" Type W screws-1/16" IMPERIAL plaster both sides-perimeter	UL Des 27-1 hr CK-664-4	(f) (s)	F0	49	140	Good sound isolation combined with highly abrasion-resistant surface. CK-664-4 based on ½" plaster	1001
1 hr.	caulked wt 8 width 5½" Wd Stud—½" IMPERIAL plaster base Type X att direct & veneer plaster—2x4 16" o.c.—base att 6d nails 7" o.c. ½" IMPERIAL pl—joints taped wt 7 width 4¾"	USG-111-FT-G&H U of C 10-27-64	(f)	50 N/A		142	Excellent surface hardness and abrasion	a-1331
1 hr.	"1/16" IMPERIAL pl—joints taped wt 7 width 43%" Wd Stud—%8" IMPERIAL plaster base Type X & veneer plaster—2x4 16" o.c.—pl base nailed 7" o.c. 11%" cem ctd nails—1/16" IMPERIAL plaster both sides—joints taped wt 7 width 5"	UL Des 5-1 hr	(f)	N/A		120	resistance	a-1331 a-1331
1 hr. est	Stag Wd Stud—Gypsum Lath & Plaster—stag 2x4 16" o.c. —com top & bottom plates—2" THERMAFIBER ins wool batts—¾" plain ROCKLATH nailed—½" gypsum sand plaster wt 18 width 7¾"	TL-58-64	(s)	50		182	Excellent party wall	a-1360
1 hr.	Wd Stud—Resil Gypsum Lath & Plaster—2x4 16" o.c.— ½" perf ROCKLATH—R-1 resil clips—½" 100:2 gyp- sum sand plaster wt 15 width 6½"	T-1329-OSU TL-60-20	(f) (s)	47		160		a-1360
1 hr. est	Wd Stud-Resil Metal Lath & Plaster-2x4's-3.4# dm met lath-\(\frac{1}{4}\)" pencil rod-\(#200\) resil clips-\(\frac{3}{4}\)" gypsum sand plaster wt 21 width 6\(\frac{1}{6}\)"	TL-61-86	(s)	43		177	Excellent sound isolation for this type construction	a-1350
1 hr.	Wd Stud—Gypsum Lath & Plaster—2x4 16" o.c.—¾" plain ROCKLATH—1½" nails 4" o.c.—½" 100:2 gypsum sand plaster wt 15 width 5¾"	T-1380 OSU NBS-148	(f) (s)	40		128	Standard wood stud partition	a-1360
1 hr.	Wd Stud-Metal Lath & Plaster-2x4 16" o.c3.4# dm met lath-¾" 100:2-100:3 gypsum sand plaster wt 20 width 5\%"	BMS-92 table 30 NBS-228 F43	(f) (s)	41		146		a-1350
1 hr.	Wd Stud-Metal Lath & Plaster-2x4 16" o.c3.4# dm met lath-%" 100:2-100:2 gypsum sand plaster wt 18 width 5½"	BMS-92 table 30	(f)	39 est		146		a-1350
ETAL	FRAMED TYPE DRY	WALL ASSE	MBL	IES			· · · · · · · · · · · · · · · · · · ·	
1 hr. est	Met Stud—¾" SHEETROCK FIRECODE gypsum wallbd— 2½" USG studs 24" o.c.—1½" THERMAFIBER sound atten blkts—2 layer—base layer ¼" SHEETROCK wallbd screw att—¾" wallbd face layer screw att— joints fin—perimeter caulked wt 7 width 4½"	CK-684-14 CK-684-13	(s) (s)		55 53	166 149	CK-684-13 based on ½" thick board	a-1201
1 hr.	Met Stud-2 layers ½" SHEETROCK gypsum wallbd ea side-1½" USG studs 24" o.cwallbd appl vert & screw att-joints stag & fin-perimeter caulked wt 9 width 3½"	U of C 9-21-64 CK-654-40	(f) (s)		53	150	Sound test based on 2½" studs & 1½" wool thickness	a-1201
1 hr. est	Met Stud—½" SHEETROCK FIRECODE "C" gypsum wallbd—2½" USG studs 24" o.c.—single layer wallbd one side appl vert & screw att—1½" THERMAFIBER sound atten blkts one side—2 layers wallbd opp side appl vert & screw att—joints stag & fin—perimeter caulked	TL-69-153 TL-69-148	(s) (s)		49 41	133	TL-69-148 based on same construction without wool	a-1201
1 hr.	Met Stud-1/2" SHEETROCK FIRECODE "C" gypsum wallbd-21/2" USG studs 24" o.c.—single layer wallbd ea side appl vert & screw att-11/4" THERMAFIBER sound atten blkts one side—joints fin—perimeter caulked wt 5 width 31/4"	T-3362-OSU TL-69-42 TL-65-158	(f) (s) (s)		45 48	138	TL-65-158 based on 35%" studs & 1" wool thickness	a-1201
1 hr.	Met Stud—%" SHEETROCK FIRECODE gypsum wallbd— 3%" USG studs 24" o.c.—wallbd single layer vert or horiz appl & screw att 12" o.c.—joints fin—perim- eter caulked wt 6 width 4%"	T-1174-OSU GA-WP-45-1 hr USG-17-FT-G&H	(f) (f)	42	-	109	Basic 1-hr corridor—fire tests based on screws 8" o.c. at vert joints—WP-45 based on horiz appl	a-1201
1 hr. est	Met Stud—½" SHEETROCK FIRECODE "C" gypsum wallbd—3" USG studs 24" o.c.—wallbd single layer vert appl & screw att—1½"THERMAFIBER sound atten blkts—joints fin—perim caulked wt 5 width 4"	TL-70-116 TL-70-106	(s) (s)		43 37	155	TL-70-106 based on same construction without wool	a-1201
1 hr.	Met Stud—%" SHEETROCK FIRECODE gypsum wallbd— 1%" USG studs 24" o.c.—wallbd single layer vert appl & screw att 12" o.c.—joints fin—perimeter caulked wt 5 width 2%"	U of C 7-31-62	(f) (s)	38		108	Min. 1-hr. drywall partn.—fire test based on screws 8" o.c. at vert. joints	a-1201
1 hr.	Shaft Wall Gypsum Drywall—%" SHEETROCK gypsum wallbd one side over 2" USG lamin gypsum corebd set in met J-run—met H-studs 24" o.c.—wallbd appl vert & screw att—joints fin wt 12 width 2%"	T-4422-OSU	(f)		N/A	154	Fire rating also applies with IMPERIAL Plaster Base and veneer plaster surface	a-1081
AMIN	ATED TYPE				11/1	134	voncer plaster surface	a-1001
1 hr.	278 Gypsum Studwall—%" SHEETROCK FIRECODE gypsum wallbd—1%"x6" lamin gypsum studs 24" o.c.—wallbd screw att both sides 18" o.c. wt 7 width 2\%"	UL Des 16-1 hr	(f)	N/A		113	Basic interior divider —chase allows easy elect. installation	a-1070
1 hr. est	368 Gypsum Ribwall—%" SHEETROCK FIRECODE gypsum wallbd—1\%"x6" gypsum ribs 24" o.c. lamin betw single layer wallbd ea side—wallbd screw att at joints—joints fin wt 8 width 3\%"	TL-62-285	(e)	43		130		a-1070
	Jointo IIII WE O WILLII 374	1 F-07-703	(s)	40		130		a-10/0

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	fire rating	description	test no.		stc ra	16-f	relative cost index	comments	folder referen
	√1-h	our rated partitions DRYWAL	L ASSEMBLIE	S (c	ontin	ued)			
2		LE TYPE	and the state of the second control of the state of the s					and the second s	
_	1 hr.	Mov Demountable Partn—½" vinyl faced TEXTONE FIRECODE "C" gypsum panels & battens screw att—2½" USG met studs 24" o.c.—2" THERMAFIBER	UL Des 21-1 hr	(f)	,			Low cost—only metal stud movable partn, with high sound	1001
_		sound atten blkts wt 6 width 3½"	TL-63-127	(s)	49		187	& fire rating	a-1281
	1 hr.	Mov VAUGHAN WALLS pre-chased sound wall—spec ½" USG gypsum wallbd face panels lamin to ½" gypsum base layer panels—½" gypsum core strips placed to form panel joints—2 rows ½" thick—alum trim wt 10 width 3"	U of C 8-12-68 WEAL 67-131	(f) (s)	45		175	Tenant wall with excellent space-saving features	a-1291
	1 hr.	Mov VAUGHAN WALLS pre-chased partn—spec %" USG gypsum wallbd face panels lamin to spec 1" gypsum core strips placed to form panel joints wt 7 width 2½"	U of C 11-1-66 TL-64-212	(f) (s)	36		150	Aluminum ceiling and floor runners. Excellent corridor or tenant partition	a-1291
_	1 hr.	Mov VAUGHAN WALLS standard solid partn—spec %" USG gypsum wallbd face panels lamin to spec 1" USG gypsum core units 24" wide	T-1235-OSU U of C 5-24-65	(f) (f)	20		100	Aluminum trim with steel inserts used in U of C fire test. Fine	- 1201
_		wt 9 width 21/4"	TL-64-213	(s)	36		166	corridor, tenant wall	a-1291
	1 hr.	Mov ULTRAWALL Drywall Partn—concealed "H" studs 24" o.c.—¾" x24" bevel edge FIRECODE panels—joints unfin wt 7 width 3\%"	U of C 8-18-67 TL-69-252	(f) (s)		36	186	Versatile movable partn.—variety of style combinations	a-1301
٧	VOOD	FRAMED TYPE							
	1 hr.	Wd Stud—Resil %" SHEETROCK FIRECODE "C" gypsum wallbd—2x4 16" o.c.—3" THERMAFIBER ins wool blkts—RC-1 chan one side spaced 24" o.c.—wallbd att with 1" Type S screws—opp side direct att with 1\%" Type W screws—joints fin—perimeter caulked wt 7 width 5\%"	UL Des 27-1 hr USG-33-FT-G&H		52		134	Best value of wood stud drywall party walls	a-1401
	1 hr. est	Stag Wd Stud-5%" SHEETROCK FIRECODE gypsum wallbd-2x3 16" o.c2x3 plates 1" apart-wallbd att with 1¼" Type W screws 16"o.c2" THERMAFIBER ins wool blkts one side-perim caulked wt 8 width 7½"	USG-106-FT-G&H USG-155-FT-G&H		51 49		153	Best value in 50 stc range for this type of party wall. 155-FT based on 2x6 common plate	a-1391
	1 hr.	Wd Stud-Resil %" SHEETROCK FIRECODE gypsum wallbd-2x4 16" o.cRC-1 chan both sides spaced horiz 24" o.c. att with 6d nails-wallbd att with 1" Type S screws-joints fin-perimeter caulked wt 7 width 5%"	T-1396-OSU TL-60-52	(f) (s)	45		127	Fully resilient 1-hr. fire rated party wall	a-1401
	1 hr. est	Wd Stud—½" SHEETROCK FIRECODE "C" gypsum wallbd —2x4 16" o.c.—2 layer—base layer ¼" SHEETROCK gypsum wallbd appl vert with 4d ctd nails—½" wallbd face layer strip lamin—joints stag & fin—perimeter caulked wt 8 width 5%"	TL-69-52	(s)		45	160		a-1391
	1 hr. est	Stag Wd Stud—%" SHEETROCK FIRECODE "C" gypsum wallbd—2x4 16" o.c. on 2x6 com plate—wallbd att with 6d ctd nails 7" o.c.—2" THERMAFIBER ins wool blkts one side—perim caulked—joints fin wt 8 width 6%"	TL-69-213	(s)		45	140		a-1391
	1 hr.	Wd Stud—2 layers ¾" SHEETROCK gypsum wallbd lamin & nailed—2x4 16" o.c.—joints fin wt 7 width 5\%"	T-118-48-OSU TL-57-14	(f) (s)	38		133		a-1391
	1 hr.	Wd Stud—%" SHEETROCK FIRECODE or W/R FIRECODE "C" gypsum wallbd—2x4 16" or 24" o.c.—wallbd nailed 7" o.c.—1%" cem ctd nails—joints fin—perim caulked wt 7 width 4%"	UL Des 5-1 hr UL Des 38-1 hr USG-30-FT-G&H	(f) (f) (s)	34		111	UL Des 38-1 hr. based on 24" stud spacing	a-1391
	oth	er partitions PLAS	STERED ASSE	мві	.IES	y			
V	WOOD	FRAMED TYPE							
	N/A	Wd Stud—Resil Gypsum Lath & Plaster—2x4 16" o.c.—3" THERMAFIBER ins wool blkts—¾" plain ROCKLATH appl direct one side—opp side R-1 resil clips & ¾" ROCKLATH—½" 100:2½ gypsum sand plaster both sides—perimeter caulked wt 14.5 width 5¾"	CK-664-37 USG-118-FT-G&H	(s) (s)	56	50	159	Outstanding sound attenuation through use of clips and insulating wool	a-1360
	N/A	Wd Stud—Resil Gypsum Lath & Plaster—2x4 16" o.c.— 3/6" plain ROCKLATH—R-1 resil clips both sides—½" 100:2½ gypsum sand plaster both sides—perimeter caulked wt 14.5 width 61/6"	USG-121-FT-G&H	(s)	54		138	Excellent sound attenuation at moderate cost	a-1360

ceilings **b**

fire ating	description	test no.	stc i	ating 16-f	relative cost index	comments	folder reference
_		WALL ASSEMBL	IES				
	May III TRAWALL Drawall Parks, consocied (642) stude						
N/A	Mov ULTRAWALL Drywall Partn—concealed "H" studs 24" o.c.—1½" THERMAFIBER sound atten blkts—¾ "x 24" bevel edge panels one side—double layer opp side with ¾" Z-Splines betw layers—joints unfin—perim caulked—painted wt 12 width 4\%"	TL-70-198 (s)		50	270	Ideal choice for maximum sound isolation	a-1301
N/A	Mov ULTRAWALL Drywall Partn—concealed "H" studs 24" o.c.—1½" THERMAFIBER sound atten bikts—¾"x 24" bevel edge panels—joints unfin wt 7 width 3%"	TL-69-259 (s)		44	180		a-1301
N/A	Mov Demountable Partn— $1/2$ " vinyl faced TEXTONE FIRECODE gypsum panels & battens screw att— $21/2$ " USG met studs 24" o.c. wt $51/2$ width $31/2$ "	TL-63-126 (s)	42		172	Same as TL-63-127 without wool—note stc difference	a-1281
ce	iling air distributing and heat	ing systems	5				
	VAI	RIOUS ASSEMBL	IES				
3 hrs. (beam 4 hrs.)	AIRSON AURATONE FIRECODE Air Dist Syst on Susp Exp Grid Syst—%"x24"x24" or 24"x48" acoust clg panels 50% AIRSON A-5 or 100% AIRSON A-2-clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd—2½" conc deck on riblath over stl beam clg wt 1.2	UL Des 226-3 hr (f)	40 to 44		cig matis 102	Includes air controls in panels; "cost index" excludes zone barriers & plenum insul.	b-1561
3 hrs. (beam 5 hrs.)	AIRSON AURATONE FIRECODE Air Distr Syst on Exposed Grid—%"x24"x48" acoust panels 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1\%" THERMAFIBER min wool bd—2\%" conc deck on cellular stl fir clg wt 1.2	UL Des 65-3 hr (f)	37 to 39		clg matis 102	Includes air controls in panels; "cost index" excludes zone barriers & plenum insul.	b-1561
3 hrs. (beam 4 hrs.)	AIRSON AURATONE FIRECODE Air Distr Syst on Concealed Z-Splines—¾"x12"x12" acoust tile 100% AIRSON A-2 or 50% AIRSON A-5—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on cellular stl flr clg wt 1.2	UL Des 59-3 hr (f)	40 to 44		clg matis 142	Includes air controls in tile—"cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs. (beam 3 hrs.)	AIRSON AURATONE FIRECODE Air Dist Syst on Susp Exp Grid Syst—%"x24"x24" to 30"x60" acoust clg panels 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.2	UL Des 299-2 hr (f)	40 to 44		clg matis 102	Includes air controls in panels; "cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs.	AIRSON AURATONE FIRECODE Air Distr Syst on Exposed Grid—½"x24"x48" acoust panels 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd-2" PYROFILL gypsum conc roof deck with ½"SHEETROCK formbd over bar joist clg wt 1.2	UL Des RC-6-2 hr (f)	37 to 39		clg matis 102	Includes air controls in panels; "cost index" excludes zone barriers & plenum insul.	b-1561 c-1641
2 hrs. (beam 4 hrs.)	AIRSON AURATONE FIRECODE Air Distr Syst on Exposed Grid—%"X24"x48" or 24"x24" acoust panels 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.2	UL Des 72-2 hr (f) UL Des 226-2 hr (f)	N/A		clg matis 102	UL Des 226-2 hr includes 4-hr beam; "cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs. (beam 2 hrs.)	AIRSON ACOUSTONE 120 Air Distr Syst on USG Concealed Z-Spline Susp Syst—¾"x12"x12" min acoust tile 50% A.RSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1¾" THERMAFIBER min wool bd—2½' conc deck on cellular stl fir clg wt 1.3	UL Des 85-2 hr (f)	35 to 39		clg matis 155	Includes air controls in tile; "cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs, (beam 2 hrs.)	AIRSON ACOUSTONE 120 Air Distr Syst on Exposed Grid —¾"x24"x24" min acoust tile 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.3	UL Des 278-2 hr (f)	39 est		clg matis 145	Includes air controls in tile "cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs. (beam 2 hrs.)	AIRSON AURATONE FIRECODE Air Distr Syst on Concealed Accessible Grid—%"x12"x12" to 24"x24" acoust tile 50% AIRSON A-5 or 100% AIRSON A-2—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.3	UL Des 281-2 hr (f)	40 to 44		clg matis 150	Includes air controls in tile; "cost index" excludes zone barriers & plenum insul.	b-1561
2 hrs.	AIRSON AURATONE FIRECODE Air Distr Syst on Concealed Z-Splines—%"x12" x12" acoust tile 100% AIRSON A-2 or 50% AIRSON A-5—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.2	UL Des 84-2 hr (f)	40 to 44		clg matls 135	Includes air controls in tile—''cost index'' excludes zone barriers & plenum insul.	b-1561

b ceilings

fire rating	description	test no.	stc ra	16-f	relative cost index	comments	folde re fere
cei	ling air distributing and heati	ng systems	(cont	inuec	1)		
2 hrs.	AIRSON AURATONE FIRECODE Air Distr Syst on Concealed Z-Splines—%"x12"x12" acoust tile 100% AIRSON A-2 or 50% AIRSON A-5—clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd—2" THERMOFILL gypsum conc roof deck with ½" SHEETROCK formbd over bar joist clg wt 1.2	UL Des RC-13-2 hr(f)	40 to 44		cig matis 135	Includes air controls in tile—"cost index" excludes zone barriers & plenum insul.	b-156 c-164
incomb. class 25	AIRSON AURATONE Air Distr Syst on Exposed Grid— %"x24"x24" or 24"x48" acoust panels slotted AIRSON A-5 or A-2 on a 100%, 50% or 25% basis clg wt 1.2	authority ASTM E84	N/A		cig matis 102	Air controls in panels; "cost index" excludes zone barriers & plenum insul.	b-156 f-192
incomb. class 25	AIRSON ACOUSTONE "F" Air Distr Syst on USG Concealed Z-Spline Susp Syst—¾"x12"x12"r12" x24" min acoust tile—slotted AIRSON A-2 or A-5 clg wt 1.3	authority ASTM E84	35 to 39		clg matls 150	Basic concealed system; "cost index" excludes zone barriers & plenum insul.	b-156 f-192
incomb.	AIRSON Grid Air Distr Syst—Exposed AIRFLO grid systems for standard acoust panels—adjustable air distr through grid itself	_	N/A		cig matis 102 exci plenum treatmt	Basic exposed grid system with unslotted panels—steel or aluminum grid	b-156 f-192
1 hr.	RED TOP Radiant Heat Plaster—1" nom wd sub & fin flr on wd joist—spec ½" Type X pl base att direct—5d nails 6"o.c.—fiber tape stapled over joints—elect heat cables embedded in ¼" radiant heat plaster clg wt 5	FPRI 39 (f)	N/A		clg matls 32	Better heat emission, allows higher cable temps than with other plasters	b-15
4-h	our rated ceilings	RIOUS ASSEMB	LIES				
4 hrs. (beam 4 hrs.)	AURATONE FIRECODE %"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1\%" THERMAFIBER min wool bd—2\%" conc on cellular stl flr clg wt 1.2	UL Des 45-4 hr (f)	40 to 44		clg matls 65	See Sound Control Products Folder for STC values of various patterns	b-154
4 hrs. (beam 4 hrs.)	Metal Lath & Plaster—¾" cr chan susp 7¾" below deck 2" below beam—3.4# dm met lath & ¾" 100:3 gypsum perlite plaster basecoat—½" USG acoust plaster—conc over cellular stl flr clg wt 7	GA-NBS-338 (f)	N/A		cig matis 140		b-14
4 hrs. (beam 4 hrs.)	Metal Lath & Plaster—¾" chan 13" o.c. 3½" below beam —3.4# dm met lath & ½" STRUCTO-LITE (Type S) plaster—2" conc over fluted stl flr clg wt 6	UL Des 12-4 hr (f)	N/A		clg matis 129		b-14
4 hrs.	ROCKLATH PI Base & Plaster—¾" cr chan 12" o.c. & BRACE-TITE Clips—¾" perf gypsum lath—1" 100:2-100:3 gypsum perlite plaster—1" 20-ga hex mesh—2" conc on riblath over bar joist clg wt 7	GA-NBS-311 (f)	N/A		clg matls 120		b-14
3-h	our rated ceilings val	RIOUS ASSEMBL	IES				
3 hrs.	ACOUSTONE 180 Fissured or MOTIF'D 3/"x12" x12" min acoust tile on Concealed Z-Spline Syst—2½" conc deck on riblath over bar joist clg wt 1.3	UL Des 96-3 hr (f)		39 est	clg matis 112		b-15
3 hrs. (beam 4 hrs.)	AURATONE FIRECODE 1/2/1/24"x24" or 24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 11/4" THERMAFIBER min wool bd—21/4" conc on cellular stl flr over stl beam clg wt 1.2	UL Des 226-3 hr (f)	40 to 44		clg matis 65	See Sound Control Products Folder for STC values of various patterns	b-15
3 hrs. (beam 5 hrs.)	AURATONE FIRECODE %"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1\%" THERMAFIBER min wool bd—2\%" conc on cellular stl flr clg wt 1.2	UL Des 65-3 hr (f) UL Des 212-3 hr (f)	40 to 44		clg matls 65	UL Des 212-3 hr based on 12" beam rated at 3 hrs	b-15
3 hrs. (beam 4 hrs.)	AURATONE FIRECODE ¾"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc on cellular stl fir clg wt 1.2	UL Des 59-3 hr (f)	40 to 44		clg matis 100	See Sound Control Products Folder for STC values of various patterns	b-15
3 hrs. (beam 3 hrs.)	5%" IMPERIAL gypsum pl base Type X & veneer plaster ceiling—USG met fur chan 24" o.c.—pl base att with 1" Type S screws 12" o.c.—joints exp or taped—1/16" IMPERIAL plaster—3" conc on riblath over bar joist clg wt 4	UL-Des 82-3 hr (f)	N/A		clg matis 62	Spacing of furring channel at 16" o.c. recommended	b-14
3 hrs. (beam 3 hrs.)	5%" SHEETROCK FIRECODE "C" gypsum wallbd—USG met fur chan 24" o.c.—wallbd att with 1" Type S screws 12" o.c.—joints exp or fin—3" conc on riblath over bar joist clg wt 3	UL Des 82-3 hr (f)	N/A		clg matis 40		b-14
3 hrs.	ROCKLATH PI Base & Plaster— $3/4$ " cr chan 12" o.c. & BRACE-TITE Clips— $3/4$ " perf gypsum lath—14-ga diag wire reinf— $3/4$ " 100:2½ gypsum perlite plaster—2½" conc over cellular stl flr clg wt 5	GA-NBS-337 (f)	N/A		clg matis 115	Good crack resistance with an opportunity to reinforce plaster at re-entry angle	b-14
3 hrs. (beam 4 hrs.)	Metal Lath & Plaster—¾" cr chan susp 15½" below deck & 3½" below beam—3.4# dm mesh metal lath—¾" STRUCTO-LITE (Type R) plaster—2" conc over cellular stl flr clg wt 5	UL Des 11-3 hr (f)	N/A		clg matls 127		b-14
3 hrs.	Metal Lath & Plaster—3/" or chan furred or susp—3.4# dm met lath & ½" neat wood fiber gypsum plaster—2½" conc on riblath over bar joist clg wt 9	BMS-92 table 43 (f)	N/A		clg matis 130	Cost index based on furred construction	b-14

ceilings



fire rating	description	test no.	stc r	ating 16-f	relative cost index	comments	folder reference
21/2	-hour rated ceilings PLAS	STERED ASSEM	BLIES			L	
2½ hrs.	Metal Lath & Plaster—¾" cr chan furred or susp— 3.4# dm met lath & ¾" 100:1-100:1 gypsum wood fiber sand plaster—2½" conc on riblath over bar joist clg wt 10	UL R5429-1 (f)			clg matis 126	Cost index based on furred construction	b-1480
2-h	our rated ceilings MINER	RAL FIBER SUR	FACES				
2 hrs. (beam 2 hrs.)	ACOUSTONE 120 Fissured or Glacier or MOTIF'D ¾"x12" x12" min acoust tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on cellular stl fir clg wt 1.3	UL Des 85-2 hr (f		39 est	clg matis 112		b-1551
2 hrs.	ACOUSTONE 120 Fissured or Glacier or MOTIF'D ¾"x12" x12" min acoust tile on Concealed Z-Spline Syst—2½" conc deck on riblath over bar joist clg wt 1.3	UL Des 41-2 hr (f)	39 est	clg matis 112		b-1551
2 hrs. (beam 3 hrs.)	AURATONE FIRECODE %"x24"x24" to 30"x60" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1\%" THERMAFIBER min wool bd—2\%" conc deck on riblath over bar joist clg wt 1.2	UL Des 299-2 hr (f	40 to 44		cig matis 65	Broad fire rating approval permits up to 30"x60" panels	b-1541
2 hrs.	AURATONE FIRECODE 1/2 "x24" x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 11/2" THERMAFIBER min wool bd—2" PYROFILL gypsum conc roof deck with 1/2" SHEETROCK formbd over bar joist clg wt 1.2	UL Des RC-6-2 hr(f	40 to 44		clg matis 65	See Sound Control Products Folder for STC values of various patterns	b-1541 c-1641
2 hrs.	AURATONE FIRECODE 1/2 "x24" x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 11/4" THERMAFIBER min wool bd—2" USG met edge gypsum plank over bar joist clg wt 1.2	UL Des RC-22-2 hr(1	40 to 44		clg matis 65	See Sound Control Products Folder for STC values of various patterns	b-1541 c-1651
2 hrs. (beam 2 hrs.)	ACOUSTONE 120 Fissured or Glacier or Finesse ¾"x 24"x24" min acoust tile on Exp Grid Syst—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.3	UL Des 278-2 hr (1	7)	40 est	clg matis 110		b-1551
2 hrs. (beam 4 hrs.)	AURATONE FIRECODE 5%"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted —light fixt prot by 11/4" THERMAFIBER min wool bd—21/2" conc deck on riblath over bar joist clg wt 1.2	UL Des 72-2 hr (f UL Des 226-2 hr (f			clg matls 65	UL Des 226-2 hr includes 4-hr beam	b-1541
2 hrs.	AURATONE FIRECODE %"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1¼" min wool bd—2½" conc deck on riblath over bar joist clg wt 1.2	UL Des 84-2 hr (f	40 to 44		clg matis 96	See Sound Control Products Folder for STC values of various patterns	b-1541
2 hrs.	AURATONE FIRECODE %"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2" THERMOFILL gypsum conc roof deck with ½" SHEETROCK formbd over bar joist clg wt 1.2	UL Des RC-13-2 hr (f	40 to 44		clg matis 96	See Sound Control Products Folder for STC values of various patterns	b-1541 c-1641
2 hrs. (beam 2 hrs.)	AURATONE FIRECODE %"x12"x12" to 24"x24" acoust clg tile on Concealed Accessible Grid Syst—clg interrupted—light fixt prot by 1¼" THERMAFIBER min wool bd—2½" conc deck on riblath over bar joist clg wt 1.2	UL Des 281-2 hr (f	40 to 44		clg matis 100	See Sound Control Products Folder for STC values of various patterns	b-1541
2 hrs. (beam 2 hrs.)	AURATONE FIRECODE ½"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1½" THERMAFIBER min wool bd—2" USG fir plank and ½" MASTICAL underlayment compd over bar joist clg wt 1.2	UL Des 293-2 hr (1	40 to 44		clg matls 65	See Sound Control Products Folder for STC values of various patterns	b-1541 b-1601
2 hrs.	USG Floor Plank System—½" MASTICAL underlayment compd—2" USG gypsum flr plank welded to bar joists 48" o.c.—5%" AURATONE FIRECODE ceiling panels on fire-rated exp grid subflr wt 17	UL Des 293-2 hr (1	5)		232		b-1541 b-1601
	PLAS	TERED ASSEM	BLIES				
2 hrs.	Metal Lath & Plaster—¾" cr chan furred or susp— 3.4#dm met lath & %"100:2-100:3 gypsum sand plaster —2½" conc on riblath over bar joist clg wt 9	BMS-92 table 43 (f	N/A		clg matis 119	Cost index based on furred construction	b-1480
2 hrs.	ROCKLATH PI Base & Plaster—¾" cr chan 12" o.c. & BRACE-TITE Clips—¾" perf gypsum lath—14-ga diag wire reinf—¾" 100:2-100:3 gypsum sand plaster—2" conc over bar joist clg wt 7	GA-NBS-345 (f			clg matls 106	Good crack resistance with an opportunity to reinforce plaster at re-entry angle	b-1460
2 hrs.	ROCKLATH PI Base & Plaster—¾" cr chan 16" o.c. & BRACE-TITE Clips—¾" perfgypsum lath—14-ga. diag wire reinf—½" 100:2½ gypsum perlite plaster—2" conc over bar joist	GA-NBS-318 (f	N/A		clg matis 106		b-1460
2 hrs. (beam 2 hrs.)	1/2" IMPERIAL gypsum pl base Type X & veneer plaster ceiling furred or susp—USG met fur chan 24" o.c.—pl base att with screws 12" o.c.—joints taped—1/6" IMPERIAL plaster—21/2" conc on riblath or corrug stl deck over bar joist clg wt 4	UL Des 221-2 hr (1	N/A		clg matls 60	Spacing of furring channel at 16" o.c. recommended	b-1471

b ceilings

fire rating	description	test no.	stc r	ating 16-f	relative cost index	comments	folder reference
2-h	our rated ceilings GYPSU	M DRYWALL SUR	FACE	S			
2 hrs. (beam 2 hrs.)	1/2" SHEETROCK FIRECODE "C" gypsum wallbd—furred or susp—USG met fur chan 24" o.c.—wallbd att with 1" Type S screws 12" o.c.—joints exp or fin—21/2" conc on riblath or corrug stl deck over bar joist clg wt 3	UL Des 221-2 hr (f) USG-189-FT-G&H (s)		54	cig matis 40	STC based on furred interrupted clg., 1½" sound atten.bikts.extendg. 4' beyond partn.	b-1491
2 hrs.	1/8" SHEETROCK FIRECODE gypsum wallbd—furred or susp—USG met fur chan 24" o.c.—wallbd att with 1" Type S screws 12" o.c.—joints exp or fin—2½" conc deck on riblath or corrug stl deck over bar joist clg wt 3	UL Des 82-2 hr (f)	40 db est		cig matis 62	Sound estimate based on joints finished	b-1491
2 hrs.	Resil 2 layers %" SHEETROCK FIRECODE "C" gypsum wallbd ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c. screw att over base layer wallbd—face layer screw att to chan 12" o.c.—joints fin clg wt 5	UL Des 272-2 hr (f)		50 est	clg matls 90		b-145
2 hrs.	USG Floor Plank System—½" MASTICAL underlayment compd—(1) no fir fin (2) foam-backed vinyl fir covering (3) 44-oz carpet & 40-oz pad atop fir—2" USG gypsum fir plank welded to bar joists 48" o.c.—USG met fur chan 24" o.c. wire tied to joist—%" SHEETROCK FIRECODE "C" gypsum wallbd screw att 12" o.c.—joints exp or fin subfir wt 17	UL Des 266-2 hr (f) (1) BBN-681014 (s) (1) BBN-681015 (s) (2) BBN-681016 (s) (3) BBN-681017 (s)	(IIC) 31 50 69	51	(1) 248 (2) 372 (3) 413	BBN-681015, 6, 7 show impact sound ratings	b-149 b-160
1½	-hour rated ceilings val	RIOUS ASSEMBLI	ES				
1½ hrs.	ACOUSTONE 90 Fissured or Glacier or MOTIF'D ¾"x12" x12" min acoust tile on Concealed Z-Spline Syst—2" conc deck on riblath over bar joist clg wt 1.3	UL Des 6-1½ hr (f)		44 est	clg matis 108		b-1551
1½ hrs.	Resil 2 layers ½" SHEETROCK FIRECODE "C" gypsum wallbd ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c. screw att over base layer wallbd—face layer screw att to chan 12" o.c.—joints fin clg wt 5	UL Des 22-1½ hr (f)	49 est		clg matls 46		b-1451
1½ hrs.	5%" SHEETROCK FIRECODE gypsum wallbd-furred or susp-USG met fur chan 24" o.c.—wallbd screw att 12" o.c.—joints fin—2" conc on riblath or corrug stl deck over bar joist clg wt 3	UL Des 4-1½ hr (f)	42 db est		clg matls 46	Sound attenuation estimate made for floor & ceiling system	b-149
1½ hrs.	Metal Lath & Plaster—susp $3.4\#$ dm met lath & $1''100:2$ gypsum sand plaster—rib type stl rf deck with $1\frac{1}{2}"$ wd fiber insul clg wt 13	NBS-58 (f)	N/A		clg matis 129		b-148
1½ hrs.	Metal Lath & Plaster—susp 3.4# dm met lath & ¾" 100:2- 100:3 gypsum sand plaster—rib type st! rf deck with 1" wd fiber insul clg wt 10	NBS-57 (f)	N/A		clg matis 127		b-148
1-h	our rated ceilings MINE	RAL FIBER SURF	ACES	N. T			
1 hr.	ACOUSTONE 90 Fissured or Glacier or MOTIF'D ¾"x12" x12" min acoust tile on Concealed Z-Spline Syst—1" nom plywd & MASTICAL compd or wd sub & fin floor over wd joist 16"o.c. clg wt 1.3	UL Des 15-1 hr (f)		44 est	cig matis 108		b-155
1 hr.	AURATONE FIRECODE $\%''$ x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by $1\%''$ THERMAFIBER min wool bd— $1\%''$ stl roof deck & 1" incomb insul over bar joist clg wt 1.2	UL Des RC-15-1 hr (f)	40 to 44		clg matls 65	See Sound Control Products Folder for STC values of various patterns	b-154
1 hr.	AURATONE FIRECODE %"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted— light fixt prot by 1½" THERMAFIBER min wool bd— 1" nom plywd & MASTICAL underlayment compd or wd sub & fin flr over 2x10 wd joist clg wt 1.2	UL Des 31-1 hr (f)	40 to 44		clg matis 65	See Sound Control Products Folder for STC values of various patterns	b-1541
		M DRYWALL SUR	FACE	S			
1 hr.	Resil ½" SHEETROCK FIRECODE "C" gypsum wallbd ceiling—1" nom plywd & MASTICAL underlayment compd or wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c.—wallbd att with 1" Type S screws—joints fin clg wt 3	UL Des 41-1 hr (f)	N/A		clg matis		b-145
1 hr. est	Resil ½" SHEETROCK gypsum wallbd ceiling—%" MASTICAL underlayment compd over %" plywd subfir —2x10 wd joist 16" o.c.—3" THERMAFIBER ins wool blkts bety joists—RC-1 chan screw att to joists— wallbd att with 1" Type S screws—joints fin clg wt 3	BBN-670601 & 670602 (s) BBN-670705 & 670706 (s)	(IIC) 54 44	56 54	clg matis 52 47	BBN-670705 & 670706 based on same const without wool	b-1451
1 hr. est	Resil SHEETROCK gypsum wallbd ceiling—1¼" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan screw att to joist—wallbd att with 1" Type S screws—joints fin	CK-6512-6 (s) (½" FIRECODE "C") CK-6412-10 (s) (5%" reg SHEETROCK)	(IIC) 39	47	clg matls 33		b-145

ceilings



fire rating	description	test no.		stc ra	ating 16-f	relative cost index	comments	folder reference	
1 hr. est	Resil SHEETROCK gypsum wallbd ceiling—1¼" nom wd sub & fin flr—44-oz carpet & 40-oz pad atop flr—2x10 wd joist 16" o.c.—RC-1 chan screw att to joists—wallbd att with 1" Type S screws—joints fin clg wt 3	CK-6512-7 (½" FIRECODE "(CK-6412-9 (5%" reg SHEETRO	(s)	(IIC) 67 66	47 48	clg matls 33 34		b-1451	
1 hr. est	Resil SHEETROCK gypsum wallbd ceiling—1¼" nom wd sub & fin flr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins wool blkts betw joists—RC-1 chan screw att to joists—wallbd att with 1" Type S screws—joints fin clg wt 3	CK-6512-9 (½" FIRECODE "(CK-6412-3 (%" reg SHEETRO	(s)	(IIC) 46	51 50	clg matis 45		b-1451	
1 hr. est	Resil SHEETROCK gypsum wallbd ceiling—1¼" nom wd sub & fin flr—44-oz carpet & 40-oz pad atop flr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins wool blkts betw joists—RC-1 chan screw att to joists—wallbd att with 1" Type S screws—joints fin clg wt 3	CK-6512-8 (½" FIRECODE " CK-6412-4 (%" reg SHEETRO	(s) C'')	(IIC) 71	52	clg matls 45		b-1451	
1 hr.	½" SHEETROCK FIRECODE "C" gypsum wallbd ceiling— 1" nom plywd & MASTICAL underlayment compd or wd sub & fin flr—2x10 wd joist 16" o.c. — wallbd att with 5d cem ctd nails 6" o.c. — joints fin clg wt 3		(f) (s)	(IIC) 35	48	clg matis	BBN-671007 & 671008 based on 1¼" thick MASTICAL underlay- ment	b-1451	-
1 hr.	%" SHEETROCK FIRECODE gypsum wallbd ceiling— Amer Plywood Assn 2-4-1 fir 4x10 wd joist 48" o.c.— USG met fur chan spaced 24" o.c.—wallbd att with 1" Type S screws—joints fin clg wt 3	UL Des 28-1 hr	(f)	N/A		clg matls 36	Only 1-hr. residential drywall system based on 48" joist spacing	b-1451	- (
1 hr.	5%" SHEETROCK FIRECODE gypsum wallbd ceiling —1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—wallbd att with 6d nails 6" o.c.—joints fin clg wt 3	CK-6412-7	(f) (s) (s)	(IIC) 32 56	38 39	clg matls 26	In CK-6412-8 test, 44-oz. carpet & 40-oz. pad added atop flooring	b-1451	
l hr. est	%" SHEETROCK gypsum wallbd ceiling—1" nom wd sub & fin flr—2x10 wd joist 16"o.c.—3" THERMAFIBER ins wool blkts betw joists — wallbd att with 6d nails 6" o.c.—joints fin clg wt 3		(s) (s)	(IIC) 32 58	41 40	clg matls	In CK-6412-5 test, 44-oz. carpet & 40-oz. pad added atop flooring	b-1451	-
	PLAS	STERED ASSE	MBL	IES			à.		
l hr.	ROCKLATH PI Base & Plaster— $\frac{3}{4}$ " or chan 16" o.c. & BRACE-TITE Clips— $\frac{3}{4}$ " perf gypsum lath— $\frac{5}{4}$ " STRUCTO-LITE plaster— $2\frac{1}{2}$ " cond on riblath over bar joist clg wt 5	NBS 261	(f)	45 db est		clg matis 104	Good crack resistance, can reinforce plaster at re-entry angle	b-1460	
l hr.	1/2" IMPERIAL gypsum pl base Type X & veneer plaster ceiling—wd joist 2x10 16" o.c.—1" nom wd sub & fin flr —pl base att 5d nails 6" o.c.—1/16" IMPERIAL plaster—joints taped clg wt 3	UL Des 42-1 hr	(f)	N/A		cig matis 27		a-1331	- (
hr.	Resil ½" IMPERIAL gypsum pl base Type X & veneer plaster ceiling—wd joist 2x10 16" o.c.—1" nom wd sub & fin flr—RC-1 chan spaced 16" o.c. and at end joints—pl base att with Type S screws 12" o.c.—1/16" IMPERIAL plaster—joints taped clg wt 3	UL Des 41-1 hr	(f)	N/A		clg matls 38		a-1331	
hr.	1/8" IMPERIAL gypsum pl base Type X & veneer plaster ceiling—Amer Plywood Assn 2-4-1 flr 4x10 wd joist 48" o.c.—USG met fur chan spaced 24" o.c.—pl base att with 1" Type S screws—1/16" IMPERIAL plaster—joints taped clg wt 3	UL Des 28-1 hr	(f)	N/A		clg matls	Only 1-hr. residential veneer plaster system based on 48" joist spacing	a-1331	
hr.	5%" IMPERIAL gypsum pl base Type X & veneer plaster ceiling—1" nom wd sub & fin flr—2x10 wd joists 16" o.c.—pl base att with 6d nails 6" o.c.—1/16" IMPERIAL plaster—joints taped clg wt 3	UL Des 1-1 hr	(f)	N/A	-	clg matis		a-1331	
hr.	Gypsum Lath & Plaster Ceiling—wd joist—1" nom wd sub & fin flr—¾" ROCKLATH FIRECODE—3" Striplath along joist—½" 100:2 gypsum sand plaster clg wt 6	FPRI No. 6	(f)	37 est		clg matls 40	Best method to attain 1-hr. rating— standard frame const	a-1360	
hr.	Gypsum Lath & Plaster Ceiling—wd joist—1" nom wd sub & fin fIr—%" ROCKLATH FIRECODE—%" 100:2 gypsum perlite or STRUCTO-LITE plaster clg wt 5	T-2134-1 OSU ((f)	N/A		clg matls 40	Constr. same as FPRI No. 6 except for Striplath & plaster	a-1360	
hr.	Gypsum Lath & Plaster Ceiling—wd joist—1" nom wd sub & fin flr—1/2" perf ROCKLATH—1/2" 100:21/2 gypsum perlite plaster clg wt 7	GA-NBS-258 ((f)	N/A		clg matis 39	Standard frame construction	a-1360	
hr. est	Wd Joist—Resil Metal Lath & Plaster Ceiling—1" nom wd sub & fin flr—3.4# dm met lath att to ¼" pencil rod on #200 resil clips—%" 100:2-100:3 gypsum sand plaster clg wt 10	NBS-710 ((s)	52		clg matls 68	Excellent sound isolation & crack resistance	a-1350	
hr.	Wd Joist—Metal Lath & Plaster Ceiling—1" nom wd sub & fin fir—3.4# dm met lath att with 1½" nails 6" o.c. —%" 100:2-100:3 gypsum sand plaster cig wt 10	BMS-92 table 42 ((f)	35 db est		clg matls 55		a-1350	-

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				S	SIONS PSSEMBLII	er ceiling assemblies van	q 1 0
1261-1 P-1551	Basic concealed spline acoustical tile system	clg matls	52 tsə		84 MT2A viinority	ACOUSTONE "F" %"x12"x12" or 12"x24" min acoust tile on Concealed Z-Spline Syst	incomb. class 25
1261-1 P-1551	Basic exposed spline system for accessibility	clg matls 97	26 est		483 MT2A yjinodjus	ACOUSTONE "F" 34" x12" x24" or 12" x36", min acoust tile on Exp 2-Spline Syst	incomb. class 25
1541 1-1541	Basic incombustible lay-in acoust panels; NRC varies with pattern	clg matls		01 01 44	authority ASTM E84	NORTONE $\%$ or $\%$ x24" or 24" x48" acoust clg panels in Susp Exposed Grid Syst	incomb. class 25
P-1241	Test USG-211-FT with double-layer blankets extending 4' both sides of partition	clg matls	84		authority ASTM E84 USG-210-FT-G&H (s) USG-211-FT-G&H (s)	Sound aften blkts above clg panels in Susp Exp Grid Syst—contin over partn—1½," THERMAFIBER Crid Syst—contin over partn—1½," THERMAFIBER	incomb. class 25
09tT-q	Attenuation test— suspension & ceiling membrane only	clg matls		qp 97	USG-6-FT-G&H (s)	ROCKLATH PI Base & Plaster→%" cr chan & BRACE-TITE Clips→%" gypsum lath→%" 100:2-100:2½ gypsum sand plaster clg wt 6	∀/N
09£1-6	Good resistance to air- borne sound; excellent crack resistance	clg matls		25	NBS-709 F43 (s)	Resil Gypsum Lath & Plaster Ceiling—wd joist—1" nom sub & fin fir— $\%$ " ROCKLAHA appl with R-1 resil clips — $\%$ " gypsum sand plaster	∀/N
P-1491	"Up and over" atten- uation—suspension & clg. membrane only	elg matls 60		(1-6) db	USG-5-FT-G&H (s)	%" SHEETROCK FIRECODE gypsum wallbd—1½" cr chan 4' 0.c.—USG met fur chan 24" o.c.—wallbd screw att 12" o.c.—joints fin	∀/N
P-1421	Basic 45-min. assembly —sound attenuation test	clg matls 23		36	(t) nim 24-1 es J U UL Des 1-45 min (t)	\(\frac{\partial}{\partial} \). SHEETROCK FIRECODE gypsum wallbd ceiling—1" nom wd sub & tin tir—2x10 wd joist 16" o.c.—wallbd att with 5d cem ctd nails 6" o.c.—joints tin clg wt 3	.nim 24

(Ree "Roof Assemblies" section below for ceiling of finished formboards available as part of integral roof system)

roof assemblies

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C-1641	Thickness of fill 2" min.	_	22-2-00118C	PYROFILL or THERMOFILL Gypsum Concrete poured over incomb formbd—rated incombustible by NBFU definition	incomb.
c-1651	A good high-strength, long-span dry decking simple to erect	49 T	UL Des RC-22-2 hr (f)	NSC Metal Edge Plank Roof Deck—MEP-7 precast—clipped on bar joists spaced 7.0" o.c. $-\%$ " incomb insul— $\%$ " LDLS thickn 2% " FIRECODE susp acoust clg panels alb y 4 LL1 y 4 thickn 2% 0.	2 hrs.
c-1641 b-1541 d-1561	Thickn. includes formboard excluding ceiling—air control valves in AIRSON tile	105 (1) 140 (2) incl clg assembly	UL Des RC-13-2hr (f)	THERMOFILL Gypsum Concrete Roof Deck poured 2" min thickn over $1/2$ " SHEETROCK formbd— bulb tee on bar joist— susp (1) AIRSON acoust clg tile AIRSON 18.2 thickn $1/2$ " also with $1/2$ thickn $1/2$ ".	2 hrs.
1991-9 1991-9 1991-9	Thickn. includes formboard excluding celling—air control valves in AIRSON panels	100 (1) 120 (2) incl clg incl clg	UL Des RC-6-2 hr (f)	PYROFILL Gypsum Concrete Roof Deck poured 2" min thickn over N " SHEETROCK formbd—bulb or clip tee on bar joistsusp (1) AURATONE FIRECODE or (2) AIRSON acoust clg panels slap wt 11 thickn $2N$."	2 hrs.
C-1641	Thickn, includes formboard— profection of primary steel required	09	UL Des RC-15-2 hr (f)	THERMOFILL Gypsum Concrete Roof Deck poured 2" min thickn over 1" FIRECODE formbd — Keydeck trussed tee — Keydeck reinf mesh	2 hrs. (beam 2 hrs.)
C-1641	Thickn, includes formboard— protection of primary steel required, Fire rating based on 8' max, beam spacing	89	UL Des RC-23-2 hr (f)	PYROFILL Gypsum Concrete Roof Deck poured 2" min thickn over 块" SHEETROCK formbd—Keydeck trussed tee—Keydeck reinf mesh slab wt 11 thickn 2½"	2 hrs. (beam 2 hrs.)
folder enerence	comments	relative cost index	test no.	description	fire gnifen

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folder reference

structural fireproofing

test no.

relative cost index

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hrs. Street, Littly, Assum perlite plaster. Street will fill be with f
1200 (1) The Sheaker Fleepter—3.44 and man et laint—3 or chan speed 34" o.c. Metal Lain & Plaster Fleepter—3.44 and man et laint—3 or chan speed 34" o.c. Metal Lain & Plaster Fleepter—3.44 and man et laint—3 or chan speed 34" or chan s
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TTRUCTO-LITE plaster Frieprig-3.4# dm met laith—%" or chan spaced 24" o.c. Metal Laith & Plaster Frieprig-3.4# dm met laith—%" or chan spaced 24" o.c. Metal Laith & Plaster Frieprig-3.4# dm met laith—%" or chan spaced 24" o.c. Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—13" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—14" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—14" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith & Plaster Frieprig-3.4# at dm met laith wrapped around col—15" Metal Laith &
hrs. Metal Lath & Plaster Fireprige—X* solid—X** or chan spaced 24* o.c. Metal Lath & Plaster Fireprige—3.4* at dm met lath wrapped around col—13** UL Des 4-hr (1) Ary LOD:2-100:3 gypsum pertific plaster Transport of the paster of the prige—3.4* at dm met lath wrapped around col—13** UL Des 6-4 hr (1) Transport of the paster of the prige—3.4* at dm met lath wrapped around col—13** UL Des 4-6 hr (1) Transport of the paster of the prige—3.4* at dm met lath wrapped around col—13** UL Des 4-6 hr (1) Transport of the paster of the prige of the price of the paster of the price of the
hrs. Metal Lath & Plaster Fireprig—3.4# and med lath—3" cr chan spaced 24" o.c. Metal Lath & Plaster Fireprig—3.4# and med lath—3" cr chan spaced 24" o.c. Metal Lath & Plaster Fireprig—3.4# and med lath—3" cr chan spaced 24" o.c. Lover—1.2" 100:2-100:3 gypsum perlite plaster Are: Appaum Drywali Inteprig—2, spyran perlite plaster Cornect beads—joints fin DrysoBAR Cypsum Tile & Plaster Fireprig—2" solid—3" met band placed 1" (based on 3" hol tile) DrysoBAR Cypsum Tile & Plaster Fireprig—3" hollow—3" gypsum sand Plaster PYROBAR Cypsum Tile & Plaster Fireprig—3" solid—3" met band placed 24" from DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" met band placed 24" from DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" gypsum sand DrysoBAR Cypsum Tile & Plaster Fireprig—3" solid—3" so
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hrs. Metal Lath & Plaster Fireprtg—3.4# dm met lath—3," cr chan spaced 24" o.c. The Metal Lath & Plaster Fireprtg—3.4# dm met lath—3," cr chan spaced 24" o.c. The Metal Lath & Plaster Fireprtg—3.4# dm met lath—3," cr chan spaced 24" o.c. The Metal Lath & Plaster Fireprtg—3.4# at dm met lath wrapped around col—13," The Metal Lath & Plaster Fireprtg—3.4# at dm met lath wrapped around col—13," The Metal Lath & Plaster Fireprtg—3.4# at dm met lath wrapped around col—13," The Metal Lath & Plaster Fireprtg—3. Subject of the plaster fir
hrs. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—13%" or cr chan spaced 24" o.c. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—13%" or cr chan spaced 24" o.c. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—13%" or char based—1500.2-100:3 gypsum perlite plaster STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster Cypsum Drywall fireprtg—2.18 gypsum perlite plaster STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster Cypsum Drywall fireprtg—2.18 gypsum perlite plaster STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster As from each—wallbd screw att to #158 met studs at col corners—met Corner beads—joints fin As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to angles—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to bands—1 layer 1% SHEETROCK As from each contin met angles screw att to angle 1 layer 1
hrs. Metal Lath & Plaster Fireprtg—3.4# at dm met lath wrapped around Left of promoter beads—joints fine britge and corner beads—joints fine prtg—2" solid—5" corner beads—joints fine prtg—2" solid—5" kylobar Gypsum Tile & Plaster Fireprtg—2" solid—5" kyloum sand plaster—contin met angle screw att to angle—met corner beads—joints fin plaster—corner beads—joints fine prtg—2" solid tile around col—tile banded to the solid basecoat & lime putty fin recom with the prtg—2" solid tile around col—tile banded basecoat & lime putty fin recom with the prtg—2" solid tile around col—tile banded basecoat & lime putty fin recom with the prtg—2" solid—5" gypsum sand with the prtg—2" solid—5" gypsum sand blaster—sanded basecoat & lime putty fin recom with the prtg—2" solid—5" gypsum sand with the prtg—2" solid—5" solid—5" gypsum sand with the prtg—2" solid—5" solid—5" gypsum sand with the prtg—2" solid—5" solid—5" gypsum sand with the prtg—5" solid—5" solid—5" sypsum sand with the prtg—2" solid—5" sypsum sand with the prtg—2" solid—5" sypsum sand with the prtg—2" solid—5" sypsum sand with the prtg—2" sypsum sand with the prtg—2" sypsum sand with the practice of the prtg—2" sypsum sand with the practice of the practice of the pr
hrs. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—1%. 100:2-100:3 gypsum perlite plaster. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—1%. 100:2-100:3 gypsum perlite plaster. Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—1%." Metal Lath & Plaster Fireprtg—3.4# af dm met lath wrapped around col—1%." Metal Lath & Plaster Fireprtg—2.4# af dm met lath wrapped around col—1%." Metal Lath & Plaster Fireprtg—2.4# af dm met lath wrapped around col—1%." Metal Lath & Plaster Fireprtg—2.100:3 gypsum perlite plaster Cypsum Drywall fireprtg—2. layers %. SHEEROOK FIRECODE "C" wallbd crew aft to #158 met studs af col corners—met corner beads—joints fin As around 14 wf 228 col—wallbd screw aft to #158 met studs af col corners—met As around 14 wf 228 col—wall Fireprtg—2" solid tile around col—tile banded to metal to make and—confinite tin As around 14 wf 228 col—wallbd screw aft to bands—1 layer %. SHEEROOK (f) Metal Lath & PROBBR Gypsum Tile & Drywall Fireprtg—3" hollow—5% gypsum sand Metal Lath & PYROBBR Gypsum Tile & Plaster Fireprtg—3" hollow—5% gypsum sand Metal Lath & PYROBBR Gypsum Tile & Plaster Fireprtg—3" hollow—5% gypsum sand Metal Lath & PYROBBR Gypsum Tile & Plaster Fireprtg—3" hollow—5% gypsum sand
hrs. Metal Lath & Plaster Fireprige—3.4# dm met lath—3" cr chan spaced 24" o.c. Metal Lath & Plaster Fireprige—3.4# dm met lath—4" cr chan spaced 24" o.c. Metal Lath & Plaster Fireprige—3.4# sf dm met lath wrapped around col—13" Metal Lath & Plaster Fireprige—3.4# sf dm met lath wrapped around col—13" Metal Lath & Plaster Fireprige—3.4# sf dm met lath wrapped around col—13" STRUCTO-LITE or 100:2-100:3 gypsum perlife plaster Chycum Drywall fireprige—3.4# sf dm met lath wrapped around col—13" Metal Lath & Plaster Fireprige—3.4# sf dm met lath wrapped around col—13" STRUCTO-LITE or 100:2-100:3 gypsum perlife plaster Chycum Drywall fireprige—2 layers %" SHEETROCK FIRECODE "C" wallbd at old 1700 Although Alt
hrs. Metal Lath & Plaster Fireprig—3.4# and met lath—%" or chan spaced 24" o.c. Metal Lath & Plaster Fireprig—3.4# and met lath—%" or chan spaced 24" o.c. Metal Lath & Plaster Fireprig—3.4# at dm met lath wrapped around col—13" Metal Lath & Plaster Fireprig—3.4# at dm met lath wrapped around col—13" STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster Action 14 met lath & Plaster Fireprig—2 layers 3.4 at dm met lath wrapped around col—13" Thus. Gypsum Drywall fireprig—2 layers 3.4 SHEETROOK FIRECODE "C" wallbd at ool orners—met lath & Plaster Fireprig—2 layers 3.4 she at dm met lath & STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster Action 15 met lath & Plaster Fireprig—2 layers 3.4 at dm met lath wrapped around col—13" Action 16 met lath & Plaster Fireprig—2 layers 3.4 at dm met lath wrapped around col—13.4 met lath & STRUCTO-LITE or 100:2-100:3 gypsum perlite plaster Action 16 met lath & Plaster Fireprig—2 layers 3.4 at dm met lath & Metal Expendition 15 metal & Metal Expendition 15 metal & M
5TRUCTO-LITE plaster With fill betw flange face & lath hrs. Metal Lath & Plaster Fireprig—3.4# dm met lath—%" cr chan spaced 24" o.c. Metal Lath & Plaster Fireprig—3.4# dm met lath wrapped around col—13," Metal Lath & Plaster Fireprig—3.4# sf dm met lath wrapped around col—13," IOD Des 6-4 hr (f)
5TRUCTO-LITE plaster with fill betw flange face & lath hrs. Metal Lath & Plaster Fireprig—3.4# dm met lath—¾" cr chan spaced 24" o.c. UL Des 7-4 hr (f)
hrs. Gypsum Lath & Plaster Fireprig — 2 layers ½" long length ROCKLATH pl CA-NBS-278 (f) 125 d-1710

description



structural fireproofing

	fire rating	description	test no.	relative cost index	folder reference
	bear	n fireproofing (continued)			
28	3 hrs. (beam only)	Gypsum Drywall Caged Beam Fireprfg -1% " USG met run chan brackets 24" o.c. -1% " x $\%$ " corner angles att to brackets -3 layers $\%$ " SHEETROCK FIRECODE gypsum wallbd att with Type S screws -1 " 20-ga hex mesh on bottom over middle layer—met beads on corners—joints fin $-2\frac{1}{2}$ " conc deck on fluted stl flr	UL Des 214-3 hr (f)	98	b-1491
29	2 hrs. (beam only)	Gypsum Drywall Caged Beam Fireprfg -1% " USG met run chan brackets 24" o.c. -1% " x $\%$ " corner angles att to chan brackets—dbl layer $\%$ " SHEETROCK FIRECODE gypsum wallbd att with Type S screws—met beads on corners—joints fin $-2\frac{1}{2}$ " conc deck on fluted stl flr	UL Des 254-2 hr (f) UL Des 255-2 hr (f)	91	b-1491

(See Ceiling System Folders Nos. b-1471, b-1480, b-1491, b-1541, b-1551, b-1561, b-1601 for protection of beams, girders, and trusses by ceiling constructions)

e

exterior walls & furring

	description	relative cost index	comments	folder reference
	1" USG Gypsum Coreboard set in metal angle floor and ceiling runners, $\frac{1}{2}$ " SHEETROCK wallboard laminated to coreboard, U.S.G. Joint Treatment	75	Free standing; allows for pipe chase clearance; minimizes shadowing and spotting	a-1070
2	USG Metal Furring Channels 24" o.c., ½" Insulating SHEETROCK screw attached, U.S.G. Joint Treatment	82	Direct attachment by furring does not isolate surface from structural stresses. No limiting height	e-1771
3	Either ¾" or 1" (2) polystyrene or (2) urethane rigid foam insulation—USG Z-Furring Channels appl vert 24" o.c.—½" SHEETROCK wallboard screw attached to channels, U.S.G. Joint Treatment	(1) 83 (2) 93	Surface membrane isolated from masonry. Alternate interior: $\frac{1}{2}$ " IMPERIAL plaster base and $\frac{1}{16}$ " IMPERIAL veneer plaster finish; see a-1141	e-1781 a-1141
	TRUSSTEEL Studs 24" o.c.—RC-1 chan spaced 16" o.c. att with 3", Type T screws—insul pl base att with 1" Type S screws—116" IMPERIAL plaster—joints taped	85	Free standing; allows pipe chase clearance; good vapor barrier	a-1151
	USG Metal Furring Channels 16" o.c., ½" Insulating IMPERIAL pl base screw att, ½" IMPERIAL pl finish	94	May be attached direct or additionally furred out on ¾" horiz. C. R. channels; good vapor barrier	a-1141
	Wood furring strips 16" o.c., ½" Insulating SHEETROCK*, U.S.G. Joint Treatment	100	Surface not isolated from structural stresses; good vapor barrier	a-1391
	RC-1 Furring Channels 24" o.c., $\frac{1}{2}$ " Insulating SHEETROCK screw attached, U.S G. Joint Treatment	101	RC-1 channel reduces transfer of structural stresses to surface membrane	a-1401
	Wood furring strips 16" o.c., Insulating ROCKLATH*, $\frac{1}{2}$ " sanded basecoat plaster, lime putty finish	138	Does not isolate surface membrane from structural stresses	a-1360
	USG Metal Furring Channels 24" o.c., $\frac{3}{8}$ " Insulating ROCKLATH screw attached, $\frac{1}{2}$ " sanded basecoat plaster, lime putty finish	140	Does not isolate surface from structural stresses. No limiting height	a-1191
	R-5 Resilient Clips $16''$ o.c., Insulating ROCKLATH and BRIDJOINT* Clips, $\frac{1}{2}''$ sanded basecoat, lime putty	141	Resiliency of the R-5 Clip will reduce the transfer of structural stresses to surface membrane	a-1161
	3½" USG Metal Studs 24" o.c., ½" Insulating SHEETROCK, U.S.G. Joint Treatment	155	Free standing; allows for pipe chase clearance; 9' limiting height; good vapor barrier	a-1201
	Either $1\frac{1}{2}$ " (1) polystyrene or (2) urethane rigid foam insulation, bonded to masonry wall— $\frac{1}{2}$ " SHEETROCK bonded to rigid foam—U.S.G. Joint Treatment	(1) 164-167 (2) 173	Excellent insulation and moisture barrier. No pipe chase capacity. Alternate interior: ½" IMPERIAL plaster base and ½6" IMPERIAL veneer plaster finish; see a-1141	e-1781 a-1141
	3% " USG Metal Studs 16" o.c., $%$ " Insul. ROCKLATH screw attached, $%$ " basecoat plaster, lime putty finish	175	Free standing furring; allows for pipe chase clearance; 9' limiting height; good vapor barrier	a-1191
	TRUSSTEEL* Studs 16" o.c. cross braced 4' o.c. on back chord, 3 " Insulating ROCKLATH attached with TL-1 Clips, $\frac{1}{2}$ " sanded basecoat plaster, lime putty finish	185	Free standing; allows for pipe chase clearance; good vapor barrier	a-1181
	$\frac{3}{4}$ " C. R. Channels 16" o.c., cross braced, $\frac{3}{8}$ " Insulating ROCKLATH and BRACE-TITE* Clips, $\frac{1}{2}$ " sanded basecoat plaster, lime putty finish	185	Isolation adequate; good vapor barrier	a-1031
	$\%''$ C. R. Channels 16" o.c., cross braced, 3.4# dm metal lath, $5\!\!\!/''$ sanded basecoat plaster, lime putty finish	203	No vapor barrier; isolation adequate	a-1031
	$\frac{\%}{8}''$ Long Length Insulating ROCKLATH, supported by $\frac{\%''}{4}$ horizontal channels 36" o.c., $\frac{\%''}{4}$ sanded basecoat plaster, lime putty finish	203	Limited to 12' ceiling height. Control joints should be used 20' o.c.	a-1031
	TRUSSTEEL Studs 16" o.c. cross braced 4' o.c. on back chord, $3.4\#$ diamond mesh metal lath, $\%$ " sanded basecoat plaster, lime putty finish	203	Free standing; allows for pipe chase clearance; no vapor barrier	a-1171
	ARMORWEAVE Expanded Metal Fascia Walls	-	Mesh grid for sunshading or screening exterior walls	is-141
	USG Exterior Curtain Walls	_	Masonry or stucco exterior, drywall or plaster interior. Assemblies offer up to 4-hour fire resistance	e-1821

product catalogs



title	reference
Gypsum Plasters . Basecoat, finish coat, high-strength veneer, gauging, and special plasters; finishing limes; general plaster	. ornamental, acoustical
Plaster Bases & Accessories. Gypsum and metal lath; gypsum partition tile; co screeds, metal and plastic trim, control joints, clips, ru studs, turring channels, brackets, partition terminals;	orner and casing beads inners, metal base, meta
Gypsum Wallboard & Accessories Wallboards, coreboard, studs and ribs, backing boar and plastic trim, moldings, channel, runners, bracke and adhesives; erection specs for board, accessories	ds; corner beads, meta ets. control joint; screws
Drywall Joint Treatment Products Reinforcing tape, joint compounds, laminating adhes	
Sheathing Products	f-1891 ; attachment specs.
Insulating Wool Products	r insulation; blowing and

title	folder reference
Paint Products Interior flats, enamels; exterior and floor paints; maso varnishes; texture finishes; sealers, primers, undercoat and metal coatings; industrial finishes; preparation and	nry coatings; stains, block filler; epoxy
Sound Control Products	nts; acoustical space
Asphalt Roofing Products	ng shingles: descrip-
Limes for Masonry Mortars	
CONCORDE Shingles	f-1961 ation specs.

U.S.G. products—specification standards

The listings below contain existing Standard Specifications, classified as Federal, Army, Navy, Treasury, etc., which apply to U.S.G. materials. Where ASTM, local codes, etc. require product variance, consult your U.S.G. representative. The symbol "WC" after a product listing denotes that U.S.G. is on the government list of those companies willing to certify that their products meet that specification. See pertinent U.S.G. Product Catalog for additional information.

PRODUCT	FEDERA SPECIFICA	_	ASTM DESIGNATION			
PLASTER						
RED TOP* gypsum plaster (WC)	SS-P-00402a	type II	C28—gypsum neat plaste			
RED TOP two-purpose plaster	SS-P-00402a	type II	C28—gypsum neat plaster			
RED TOP wood fiber plaster (WC)	SS-P-00402a	type III	C28—gypsum wood fiber			
STRUCTO-LITE* plaster perlite aggregate	SS-P-00402a non-applicable	type I	C28—gypsum ready mix plaster C35			
RED TOP gauging plaster (WC)	SS-P-00402a	type V	C28—gypsum gauging for finish coat			
RED TOP molding plaster	SS-P-00402a	type V	C28—gypsum gauging for finish coat			
RED TOP keenes cement regular (WC) quick trowel	SS-P-00410 SS-P-00410	type I type II	C61 C61			
STRUCTO-GAUGE* plaster	SS-P-00402a with added re compressive s less than 5000	trength not	C28—gypsum gauging for finish coat			
STRUCTO-BASE* plaster	SS-P-00402a with added re compressive s less than 2800	trength not	C28—gypsum neat plaste			
HI-LITE* acoustical plaster-stippled & stippled-perforated	SS-S-111 type NRC grade 4 sound absorpt 105 class not dete	tion grade				
AUDICOTE* acoustical plaster	SS-S-111 type NRC grade 5 sound absorp 105 class not dete	tion grade	-			
IMPERIAL* plaster	non-applicable		C-587—gypsum veneer plaster			
YROBAR* partition tile						
(WC)	SS-T-00316a		C52			

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
LIME		
RED TOP and GRAND PRIZE* finish lime	SS-L-00351a type F (including added require-	C6 type N
IVORY* finish lime	ment of not more than 8% unhydrated oxides)	C206 type S
RED TOP masons hydrate	SS-L-00351a type M (including added require-	C207 type N
MORTASEAL* masons lime	ment of not more than 8% unhydrated oxides)	C207 type S
RED TOP and CHESHIRE quicklime	SS-Q-351 type C	C5
RED TOP quicklime	SS-Q-351 type M	C5
Bases, metal: (for) plaster, lath and stucco constr. (WC) 3.4# galv. diamond mesh lath, 2.5# and 3.4# c.a. ptd.; ½" 4-mesh 2-riblath 2.75# and 3.4#; ½" riblath 3.4# and 4.0# hanger wire—tie wire	QQ-L-101a type F (flat dia. mesh) type SF (self furring dia. mesh) type FR (½" flat rib) type FR (½" rib) QQ-W-461 f	non-applicable
GYPSUM LATHING	finish 5 class 1 (1006 type steel)	
ROCKLATH* plaster base—	SS-L-30c type I, grades R and X, class I, forms (a) (b) and (c), styles 1 and 5	C37
IMPERIAL* plaster base— ½" & %"	r base— SS-L-30c type I, grades R and X, class 1, style 1	
USG R.H. base— ½" & %"	SS-L-30c type I, grades R and X, class 1, style 1 (in type III size)	
	(continued)	

(continued)

U.S.G. products—specification standards (continued)

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
SHEETROCK* gypsum wall	ooard	
(plain) (insulating)	SS-L-30c	C36
square edge (WC)	type III grade R class 1	C36
tapered edge (WC)	type III grade R class 1	C36
bevel edge (WC)	type III grade R class 1	C36
½" FIRECODE*	type III grade X class 1	C36
1/2" & 5/8" FIRECODE "C"	type III grade X class 1	C36
TEXTONE* vinyl covered	type III grade R or X cl. 3	C36
BAXBORD* backing board	type IV grade R or X cl. 1	C442
W/R water-resistant	-	C630
HEATHING		
FIRECODE* gypsum sheathing	SS-L-30c type II grade W cl. 2	C79
USG wood fiber insulating sheathing	LLL-1-535a class e	C208 class e
OINT TREATMENT		
USG, PERF-A-TAPE* &		
DURABOND* joint compounds	SS-J-570a type I	C474 & C475
PERF-A-TAPE reinf, tape	SS-J-570a type II	
Compound & tape combined	SS-J-570a type III	
RYWALL ACCESSORIES		
USG electro-galv. studs and runners, furring channels, RC-1 resilient channels	QQS-698	C645
USG hot-dipped studs and runners, furring channels, RC-1 resilient channels	QQS-775d	A 525
Metal corner beads and trim	QQS-775d class E	A525
USG brand screws	_	C646
DURABOND Adhesive 200, 300	_	C557
ACOUSTICAL UNITS-PRE	FABRICATED	
ACOUSTONE* "F" MOTIF'D* ACOUSTONE AIRSON* ACOUSTONE AURATONE*	SS-S-00118 (GSA-FSS) type III class 25	E-84-61T
PERFATONE*	SS-S-00118 (GSA-FSS) type V class 25	E-84-61T
AUDITONE*	SS-S-00118 (GSA-FSS) type I class 200 & 75	
METAL GRATING		
GRATE-X* grating 3.0-3.14-4.0-4.27#	MIL-G-18015s & MIL-M-17194c	non-applicable
GRIP STRUT* grating selected styles	RR-G-661b type III MIL-G-18015s types I, II, III, IV	non-applicable

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
MINERAL FIBER INSULATI	ON	
THERMAFIBER* open face batt (membrane facing one side) blanket batt (with enveloping membranes) blowing wool pouring wool sound attenuation blanket	HH-I-521D type I, II, III HH-I-521D type I, II, III HH-I-1030 type I cl. A HH-I-1030 type II cl. A HH-I-521D type I, II, III	none none none none none
USG perimeter insulation	HH-1-542 type II HH-1-562 type I cl. 2 HH-1-563 type II cl. D HH-1-564 class A & B form 1 & 2	C378 non-load bearing C392 class 1
NSULATION BOARDS		
USG sound deadening board wood fiber mineral fiber	LLL-I-535a class a	C208 class A non-comb. class A
USG roof insulation	LLL-I-535a class c	C208 class C
ROOFING		
FORTIFIED*-300, Square Butt, Giant Strip shingles	SS-S-001534 type II	D225 type II
FORTIFIED*-300, Square	SS-S-001534 type II SS-S-001534 type I	D225 type II D225 type I
FORTIFIED*-300, Square Butt, Giant Strip shingles		
FORTIFIED*-300, Square Butt, Giant Strip shingles SEALCO* shingles	SS-S-001534 type I	
FORTIFIED*-300, Square Butt, Giant Strip shingles SEALCO* shingles FIRECODE* A-25 shingles	SS-S-001534 type I SS-S-001534	D225 type I
FORTIFIED*-300, Square Butt, Giant Strip shingles SEALCO* shingles FIRECODE* A-25 shingles USG asphalt sat. felts	SS-S-001534 type I SS-S-001534 HH-R-595 type II cl. I & II	D225 type I
FORTIFIED*-300, Square Butt, Giant Strip shingles SEALCO* shingles FIRECODE* A-25 shingles USG asphalt sat. felts USG asbestos felt	SS-S-001534 type I SS-S-001534 HH-R-595 type II cl. I & II HH-R-590 type I class A	D225 type I D226 D250
FORTIFIED*-300, Square Butt, Giant Strip shingles SEALCO* shingles FIRECODE* A-25 shingles USG asphalt sat. felts USG asbestos felt ADAMANT* cap roll roofing	SS-S-001534 type I SS-S-001534 HH-R-595 type II cl. I & II HH-R-590 type I class A SS-R-630D	D225 type I D226 D250 D249

PRODUCT	SPECIFICATION	ASTM DESIGNATION	NATIONAL
YPSUM ROOF DECKS			
PYROFILL* gypsum fiber concrete	(C.E. 219)	C317 material	ANSI A59-1
SHEETROCK formboards	SS-L-30c type V	C318 material	-
USG insulation formboards	LLL-1-535a	C208 class A	
USG min. fiber formboards	SS-S-118a cl. 25	_	-
USG acoustical formboard	SS-A-118b type IIb cl. 200		
USG ¼" asbestos formboard sheets, flat	SS-B-755 type u only	_	_
USG 2" metal edge gypsum plank—precast	SS-T-315a type I	C377 type 2	_

^{*}Reg. U.S. Pat. Off.

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